

Catalog C-1

**BONNEY**

ALLENTOWN, PA., U.S.A.

*Tools*

for **AUTOMOTIVE**  
**AVIATION**  
**REFRIGERATION**  
**INDUSTRIAL**  
**MARINE**  
**FARM**

# THE BONNEY

## Guarantee

**A**LL BONNEY TOOLS are made from the finest obtainable steels to meet the normal conditions to which the tool will be subjected. Every Bonney Tool is individually and rigidly inspected before leaving the factory, and is guaranteed against defects in workmanship and/or materials. All tools that do not live up to this guarantee will be replaced or repaired free of charge.

Free replacement cannot be made if inspection shows that tools have been hammered or used with any device for adding any extra leverage—tools have been ground thinner or changed in design—have been used on oversized or undersized nuts, or where tools have been used for any purpose other than that for which they have been designed.

Bonney Tools cannot be replaced free of charge that show normal wear and tear—damage from contact with hot wires—damage resulting from alterations or tampering—breakage from abuse or overload.

Bonney Pliers, Punches, Chisels or Screw Drivers cannot be replaced or repaired free of charge that show they have been used for other than their intended purpose, or that show damage to the teeth or cutting edges resulting from use on hardened materials or tempered steel wire.

All Bonney Tools must be returned to the factory in Allentown, Penna. with charges prepaid for examination before any adjustment will be made.

BONNEY FORGE & TOOL WORKS  
Allentown, Pa.



## YOU AND BONNEY

You get a kick out of catching the biggest fish on the trip or hitting the longest ball or bowling the highest score. You're also probably proud of doing your job better than the next fellow—that's what makes you a **real** mechanic and makes your job important.

Doing it **better** makes a baseball star, a champion boxer, a halfback who really "has what it takes" to tote the pigskin to payoff territory.

It's what people mean when they say of a winner, "he's **got** it". **Quality** is another word for it. Some people . . . some teams have it. And the same thing goes for some companies . . . some products.

What is it that labels a man, a team, a company's product as quality?

Isn't it a combination of character, experience, skill, and pride in doing a better job than the other fellow—PLUS confidence that you have what it takes to do just that?

We think it is.

And we know it's that combination which is evident in the performance of Bonney Tools.

Because the **real** mechanic has in him that same combination of experience, skill and pride in his work; he knows quality tools and uses them—that's why you'll generally find Bonney tools where you find a **real** mechanic at work.

It is you and your fellow mechanics who, over the years have rated "Bonney's" as the top choice for quality and long service.

## YOU AND YOUR JOBBER

You've undoubtedly heard quite a bit about the "Get It From Your Jobber" idea. Perhaps you haven't given too much thought to it because you think of it in terms of batteries and plugs and carburetors and rings and replacement parts of all types.

These are things that someone else pays for.

But start thinking about why you should buy the **tools**—that **you** pay for—from your local jobber.

Buying tools from your jobber offers you a number of advantages. It's convenient. Your jobber is as close as your telephone when you can't get down to his place of business.

Because he's doing business with your shop daily, he's interested in you . . . in seeing that you get the right tools to help you do the job right.

He's an established business man with a reputation for square dealing and you can count on him to stand behind the tools he sells you. What's more, you can always reach him when you need him.

Last but by no means least, good jobbers everywhere carry Bonney tools—tools designed and built to do a better job for you . . . tools backed by a real guarantee.

This means that no matter how far you travel, up and down and across the country, you can always get the right "matched tools" as you fill out your Bonney tool set.

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For New Sockets & Attachments, Wrenches and Miscellaneous Special Tools recently added to line, see Supplementary Section, pages S1 to S21 in back section of catalog.

## IMPORTANT

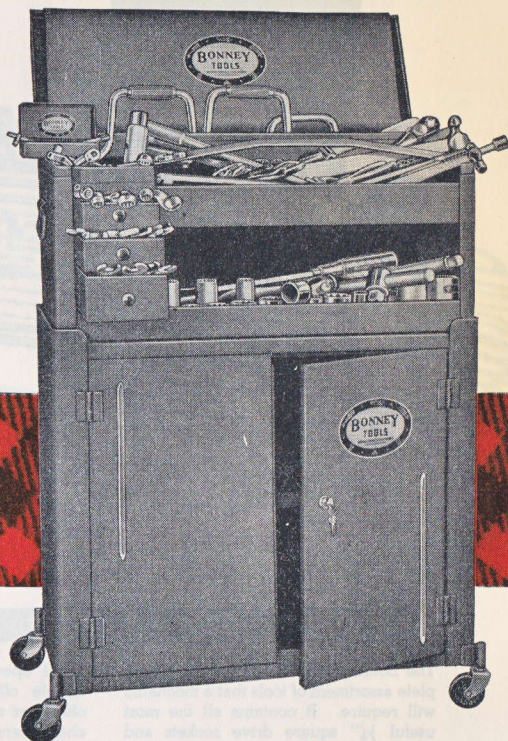
Since this catalog was published, a number of revisions have been made in the Bonney line. The pressure of defense production has necessitated the discontinuance of certain items; a few tools in some of the sets have been changed as well as the style and dimensions of most of the metal boxes.

In order to avoid confusion, new numbers have been assigned to these various tool sets. Under the circumstances it is advisable to check any intended purchase with your jobber before ordering to make certain you will get exactly what you want.

Bonney Forge & Tool Works

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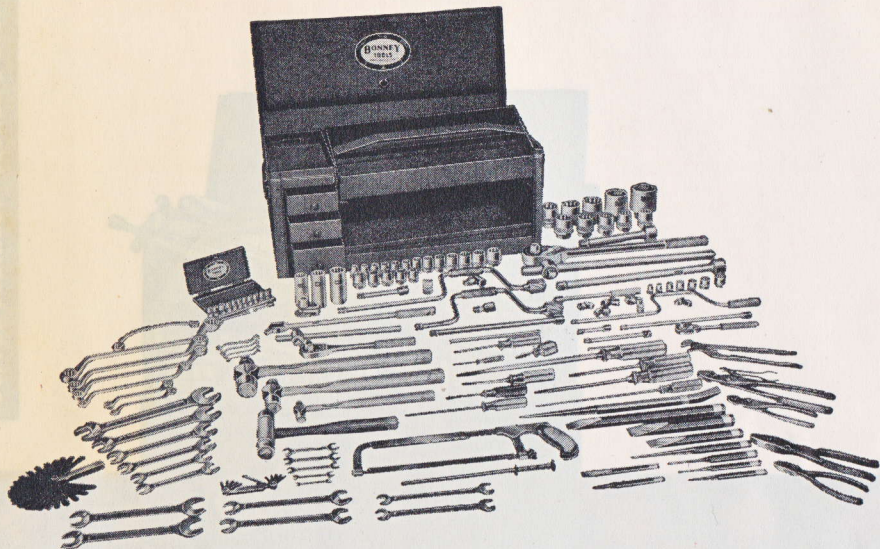


## Bonney No. "CC" Roller Cabinet with AA2 Socket and Tool Set

Bonney Roller Cabinets are made of heavy gauge sheet metal, attractively finished in "crackle" tan enamel. They have rounded edges and are mounted on rubber-tired casters for noiseless, easy movement. The No. "CC" Roller Cabinet is 28" long, 13" wide, and 27" high (correct size to hold the AA2 Set) and weighs 50 lbs. It has a center shelf,

double doors, and door lock with key.

With the AA2 Set illustrated (and shown on page 6), a mechanic has a most complete set—one which will care for practically any job encountered. The cabinet makes it easy to roll the set about the shop and take it right up to the job, easily and quickly.



## No. AA2 Socket and Tool Set

### 142 Pieces

**1/4, 3/8, 1/2, 3/4 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS**

The Bonney AA2 Set is the most complete assortment of tools that a mechanic will require. It contains all the most useful 1/4" square drive sockets and attachments; 3/8" square drive double hexagon and flexible double hexagon sockets and attachments; 1/2" square drive double hexagon, extra deep double hexagon, and double square sockets and attachments; 3/4" square drive double hexagon sockets and attachments; miniature open end wrenches;

Zenel open end wrenches; miniature double offset box wrenches; double offset box wrenches; Zenel tappet wrenches; pliers; hammers; punches; chisels; screw drivers; and miscellaneous tools.

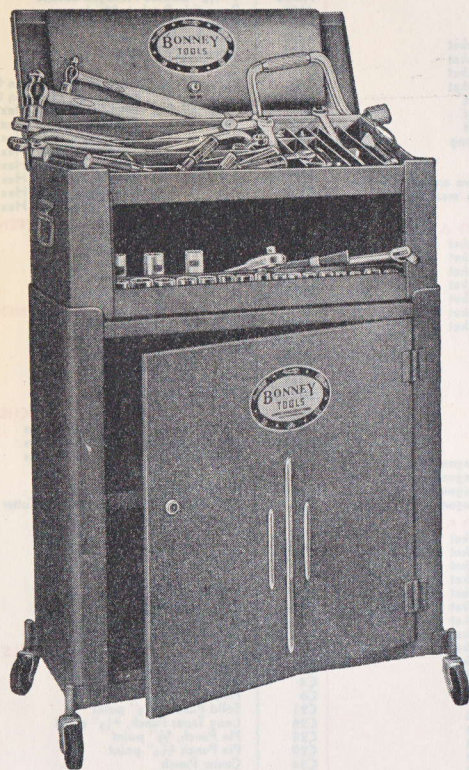
Designed as a complete set for a mechanic.

Packed in a metal box 27" x 12" x 11", with removable tray, three drawers, end carrying handles, and lock and key, the set includes the following:

# Contents No. AA2 Socket and Tool Set

No.	Description	No.	Description
<b>1/4" SQ. DR. SOCK. AND ATTACHMENTS</b>		HD52	1 1/2" Double Hexagon Socket
V6	3/16" Hexagon Socket	HD54	1 1/16" Double Hexagon Socket
V7	7/32" Hexagon Socket	HD58	1 13/16" Double Hexagon Socket
V8	1/4" Hexagon Socket	4285	Reversible Ratchet, 20" long
V9	9/32" Hexagon Socket	4287	Sliding "T" Handle, 20" long
V10	5/16" Double Hexagon Socket	4290	Extension, 8 1/2" long
V11	11/32" Double Hexagon Socket	4291	Extension, 17" long
V12	3/8" Double Hexagon Socket	<b>BOX WRENCHES</b>	
V14	7/16" Double Hexagon Socket	E40	3 1/8" & 13/64" Extra-Small, Hexagon Opening
V58	1/4" Double Square Socket	E42	7/32" & 9/64" Extra-Small, Hexagon Opening
V510	5/16" Double Square Socket	E44	1/4" & 11/32" Extra-Small, Dble. Hex. Opening
V512	3/8" Double Square Socket	E46	5/16" & 7/32" Extra-Small, Dble. Hex. Opening
V17	Sliding "T" Handle, 4 1/2" long	2804	3/8" & 7/16" Short Type, Dble. Hex. Opening
V19	Extension, 6" long	2805	1/2" & 9/16" Short Type, Dble. Hex. Opening
The 14 pieces listed above are packed in a separate metal case which measures 6 1/4" x 3" x 1"		2805L	1 1/2" & 9/16" Long Type, Dble. Hex. Opening
<b>3/4" SQ. DR. SOCK. AND ATTACHMENTS</b>		2807A	5/8" & 1 1/16" Long Type, Dble. Hex. Opening
T12	7/8" Double Hexagon Socket	2808	3/4" & 7/8" Long Type, Dble. Hex. Opening
T14	7/16" Double Hexagon Socket	2810	1 5/16" & 1" Long Type, Dble. Hex. Opening
T16	7/8" Double Hexagon Socket	<b>MINIATURE OPEN END WRENCHES</b>	
T18	9/16" Double Hexagon Socket	H10	3/16" & 7/32" Openings
T20	9/16" Double Hexagon Socket	H12	1/8" & 9/32" Openings
T22	11/16" Double Hexagon Socket	H14	5/16" & 11/32" Openings
T24	3/4" Double Hexagon Socket	H16	3/8" & 7/16" Openings
T27	Drag Link Socket	H18	1 3/32" & 1 1/32" Openings
T3	Universal Joint	<b>ZENEL OPEN END WRENCHES</b>	
T4	Extension, 6" long	3723	3/8" & 7/16" Openings
T5	Extension, 12" long	3725B	1/2" & 9/16" Openings
T9	Speeder, 17 1/2" long	3027	1 9/32" & 1 11/16" Openings
T30	Hinge Handle, 8 1/2" long	3028S	5/8" & 25/32" Openings
T31	Extension, 3" long	3731	3/4" & 13/16" Openings
T32	Cross Handle, 6" long	3033A	7/8" & 15/16" Openings
T35	Reversible Ratchet, 7" long	<b>ZENEL TAPPEE WRENCHES</b>	
TU14	7/16" Flexible Double Hexagon Socket	3422	(Two each) 1/4" & 9/16" Openings
TU16	9/16" Flexible Double Hexagon Socket	3424	(Two each) 5/8" & 1 1/16" Openings
TU18	9/16" Flexible Double Hexagon Socket	3426	(Two each) 3/4" & 7/8" Openings
TU20	3/8" Flexible Double Hexagon Socket	<b>PLIERS</b>	
<b>1/2" SQ. DR. SOCK. AND ATTACHMENTS</b>		B26	7" Combination Side Cutter
A14	7/16" Double Hexagon Socket	B28	10" Heavy Duty Slip Joint with Cutter
A16	3/8" Double Hexagon Socket	B17	Diagonal Cutting
A18	9/16" Double Hexagon Socket	B23	8" Lineman's Cutting
A19	19/32" Double Hexagon Socket	B420	Pump Plier
A20	3/8" Double Hexagon Socket	B424	Ignition Plier
A22	11/16" Double Hexagon Socket	<b>HAMMERS</b>	
A24	3/4" Double Hexagon Socket	PH1	2 oz. Ball Pein
A25	25/32" Double Hexagon Socket	PH7	1 lb. Ball Pein
A26	13/16" Double Hexagon Socket	PH10	2 lb. Ball Pein
A28	7/8" Double Hexagon Socket	PH20	1 lb. Soft Face
A30	15/16" Double Hexagon Socket	<b>PUNCHES AND CHISELS</b>	
A32	1" Double Hexagon Socket	C2	Flat, 7/16" cut
4001	Drag Link Socket	C4	Flat, 3/4" cut
4114	7/16" Double Square Socket	C6	Flat, 1" cut
4116	1/2" Double Square Socket	C21	Solid Punch, 1/16" point
4118	9/16" Double Square Socket	C26	Long Taper Punch, 3/16" point
4120	3/8" Double Square Socket	C28	Pin Punch, 1/16" point
4124	3/4" Double Square Socket	C29	Pin Punch 3/8" point
LD22	11/16" Extra-Deep Socket, 3/4" long	C34	Center Punch
LD26T	13/16" Extra-Deep Socket, 3/4" long	C36	Rivet Buster, 3/8" cut
LD28T	7/8" Extra-Deep Socket, 3/4" long	C38	Pry or Pinch Bar, 16" long
4084	Brace, 14" long	<b>SCREW DRIVERS</b>	
4085	Speeder, 20" long	001	Pocket Size, 2" blade
4087	Sliding "T" Handle, 11" long	CP2	For Phillips Screws Nos. 5 to 9 inc.
4090	Extension, 5" long	006	Electricians', 6" blade
4090B	Extension, 2" long	0010	Electricians', 10" blade
4091X	Extension, 10" long	E03	Electricians' (Neon Tube)
4092	Cross Handle, 8" long	S01	Adjusting, 1 3/4" blade
4095	Universal Joint	S04	Square Shank, 4" blade
4096	Hinge Handle, 15" long	06	Round Shank, 6" blade
4098	Reversible Ratchet, 10" long	08	Round Shank, 8" blade
<b>3/4" SQ. DR. SOCK. AND ATTACHMENTS</b>		S012	Square Shank, 12" blade
HD32	1" Double Hexagon Socket	<b>MISCELLANEOUS</b>	
HD34	1 1/16" Double Hexagon Socket	2591	Stud Wrench, 5/16" to 3/4"
HD36	1 1/8" Double Hexagon Socket	2881	Starter and Manifold Wrench
HD40	1 1/4" Double Hexagon Socket	K8	8" Handy Holding Tool
HD42	1 5/16" Double Hexagon Socket	K52	Ignition Feeler Gauge
HD46	1 1/2" Double Hexagon Socket	K53	Universal Master Feeler Gauge
HD48	1 1/2" Double Hexagon Socket	2628	Adjustable Hack Saw Frame with No. F1018 blade

Net Weight 128 Lbs.

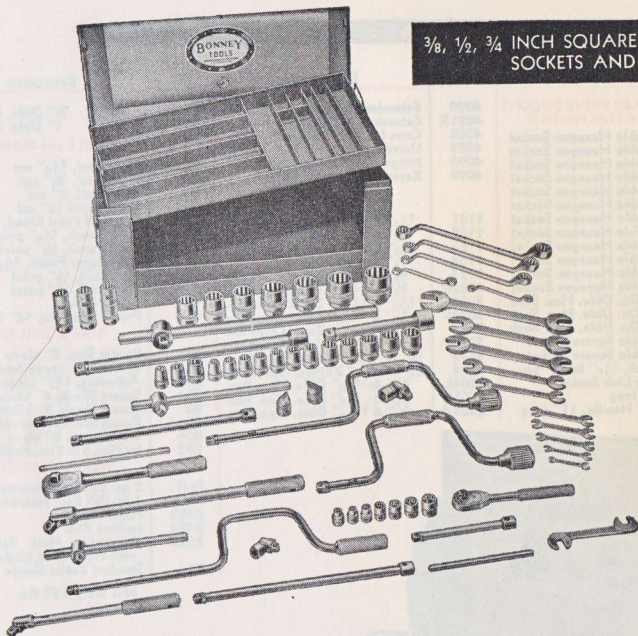


## **No. "C" Roller Cabinet with Bonney Tool Sets**

The No. "C" Roller Cabinet is 24" long, 12" wide, 27" high (correct size for the AV1, MCI, or BB1 Metal Boxes) and weighs 40 lbs. It has a center shelf, single door and lock with key.

Equipped with the AV1 Set (shown on page 11), the MCI Set (shown on page 9) or the BB1 Set (illustrated above and shown on page 10) the "C" Roller Cabinet makes a fine workshop on wheels. It eliminates the necessity of running back and forth to the bench for needed tools.

# No. MCI Socket and Tool Set • 70 Pieces



3/8, 1/2, 3/4 INCH SQUARE DRIVE  
SOCKETS AND ATTACHMENTS

The Bonney MCI Set contains all the most useful 3/8" square drive double hexagon sockets and attachments; 1/2" square drive double hexagon, extra deep double hexagon, and double square sockets and attachments; 3/4" square drive double hexagon sockets and attachments; miniature open end wrenches; open end wrenches; and double offset box wrenches.

Designed as a mechanic's main tool set. Packed in a metal box, 23" x 11" x 9", with removable tray, end carrying handles, and lock and key, the set is composed of:

No.	Description	No.	Description	No.	Description
<b>3/8" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>					
T10	5/16" Double Hexagon Socket	A20	5/8" Double Hexagon Socket	HD40	1 1/4" Double Hexagon Socket
T12	3/8" Double Hexagon Socket	A22	1 1/8" Double Hexagon Socket	HD42	1 5/8" Double Hexagon Socket
T14	7/16" Double Hexagon Socket	A24	1 3/8" Double Hexagon Socket	HD46	1 7/8" Double Hexagon Socket
T16	1/2" Double Hexagon Socket	A26	1 5/8" Double Hexagon Socket	HD48	1 15/16" Double Hexagon Socket
T18	9/16" Double Hexagon Socket	A28	1 3/4" Double Hexagon Socket	HD52	1 5/8" Double Hexagon Socket
T19	1 1/8" Double Hexagon Socket	A30	1 5/8" Double Hexagon Socket	4287	Sliding "T" Handle, 20" long
T20	5/8" Double Hexagon Socket	A32	1" Double Hexagon Socket	4290	Extension, 8 1/2" long
T3	Universal Joint	4001	1 5/16" Drag Link Socket	4291	Extension, 17" long
T4	Extension, 6" long	4002	1 1/4" Drag Link Socket	<b>WRENCHES</b>	
T5	Extension, 12" long	LD22	1 1/16" Ex. Dp. Dble. Hex. Sock.	H10	3/16" & 7/32" Min. Open End
T9	Speeder, 17 1/2" long	LD26T	1 3/16" Ex. Dp. Dble. Hex. Sock.	H12	5/16" & 9/32" Min. Open End
T30	Hinge Handle, 8 1/2" long	LD28T	7/8" Ex. Dp. Dble. Hex. Sock.	H14	5/16" & 11/32" Min. Open End
T32	Cross Handle, 6" long	4084	Brace, 14" long	H16	3/8" & 7/16" Min. Open End
T35	Reversible Ratchet, 7 1/2" long	4085	Speeder, 19 3/4" long	H18	13/32" & 15/32" Min. Open End
T36	Sliding "T" Handle, 8" long	4087	Sliding "T" Handle, 11" long	1725B	1/8" & 9/16" Open End
<b>1/2" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>					
4114	7/16" Double Square Socket	4090	Extension, 5" long	1027A	5/8" & 1 1/16" Open End
4116	1/2" Double Square Socket	4091X	Extension, 10" long	1731	3/8" & 13/16" Open End
4118	9/16" Double Square Socket	4092	Cross Handle, 8" long	1033A	7/8" & 1 5/16" Open End
A14	7/16" Double Hexagon Socket	4095	Universal Joint	1735	1" & 1 1/8" Open End
A16	1/2" Double Hexagon Socket	4096	Hinge Handle, 15" long	2725B	1/8" & 9/16" Right Angle
A18	9/16" Double Hexagon Socket	4098	Reversible Ratchet, 10" long	2804	3/8" & 7/16" Dble. Hex. Box
A19	1 1/32" Double Hexagon Socket	<b>3/4" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>		2805	7/8" & 9/16" Dble. Hex. Box
		HD34	1 1/16" Double Hexagon Socket	2807A	3/8" & 1 1/16" Dble. Hex. Box
		HD36	1 1/8" Double Hexagon Socket	2808	3/4" & 1" Dble. Hex. Box
				2810	1 5/16" & 1 7/8" Dble. Hex. Box

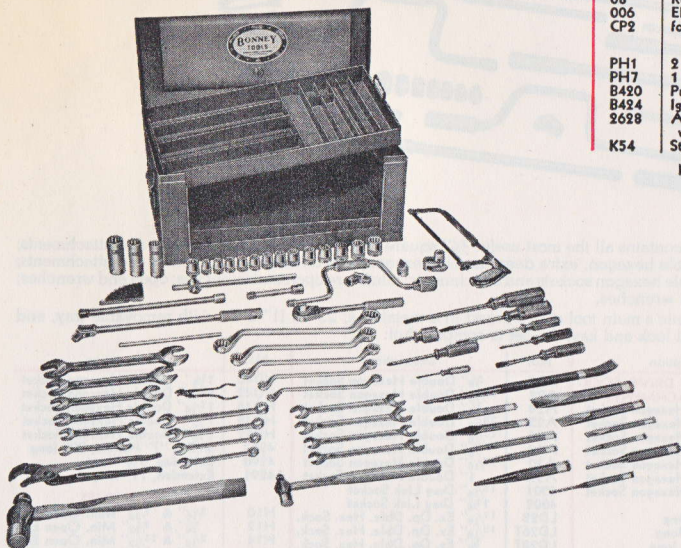
Net Weight 60 lbs.

# No. BBI Socket and Tool Set • 72 Pieces

## 1/2 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

No.	Description	No.	Description	No.	Description
<b>1/2" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>		4090	Extension, 5" long	2808	3/4" & 7/8" Dble. Hex. Box
A14	7/16" Double Hexagon Socket	4091X	Extension, 10" long	2810	15/16" & 1" Dble. Hex. Box
A16	1/2" Double Hexagon Socket	4092	Cross Handle, 8" long	<b>CHISELS and PUNCHES</b>	
A18	9/16" Double Hexagon Socket	4095	Universal Joint	C2	Flat Chisel, 7/8" cut
A19	13/32" Double Hexagon Socket	4096	Hinge Handle, 15" long	C4	Flat Chisel, 3/4" cut
A20	5/8" Double Hexagon Socket	4098	Reversible Ratchet, 10" long	C6	Flat Chisel, 1" cut
A22	11/16" Double Hexagon Socket	<b>WRENCHES</b>		C12	Cape Chisel 1/4" cut
A24	3/4" Double Hexagon Socket	1161	7/16" Combination	C15	Diamond Point Chisel, 1/4" cut
A25	25/32" Double Hexagon Socket	1162	1/2" Combination	C21	Solid Punch, 1/16" point
A26	13/16" Double Hexagon Socket	1163	9/16" Combination	C23	Solid Punch, 5/8" point
A28	7/8" Double Hexagon Socket	1164	3/4" Combination	C35	Long Taper Punch, 5/32" point
A30	15/16" Double Hexagon Socket	3793	3/8" & 7/16" Zenel Open End	C38	Pin Punch, 1/8" point
A32	1" Double Hexagon Socket	3795B	1/2" & 11/16" Zenel Open End	C30	Pin Punch, 1/4" point
LD22	11/16" Ex. Dp. Dble. Hex. Sock.	3027	13/32" & 25/32" Zenel Open End	C34	Center Punch
LD26T	13/16" Ex. Dp. Dble. Hex. Sock.	3028S	3/8" & 13/16" Zenel Open End	C38	Pry or Pinch Bar, 16" long
LD28T	7/8" Ex. Dp. Dble. Hex. Sock.	3731	3/4" & 15/16" Zenel Open End	<b>SCREW DRIVERS</b>	
4116	1/2" Double Square Socket	3033A	1/2" & 9/16" ZENEL Tap (2 wr.)	001	Pocket Size, 2" blade
4118	3/4" Double Square Socket	3422	3/8" & 11/16" ZENEL Tap (2 wr.)	E03	Electricians' (neon tube), 3" bl.
2591	Stud Wrench, 5/16" to 3/4" cap.	2804L	3/8" & 7/16" Dble. Hex. Box	S01	Adjusting, 1 3/4" blade
4001	15/16" Drag Link Socket	2805L	1/2" & 9/16" Dble. Hex. Box	S04	Square Shank, 4" blade
4084	Brace, 14" long	2807A	3/8" & 11/16" Dble. Hex. Box	O6	Round Shank, 6" blade
4087	Sliding "T" Handle, 11" long			O8	Round Shank, 8" blade
				Electricians', 6" blade	
				006	
				CP2	for Nos. 5 to 9 inc. Phillips Screws
				<b>MISCELLANEOUS</b>	
				PH1	2 oz. Ball Pein Hammer
				PH7	1 lb. Ball Pein Hammer
				B420	Pump Plier
				B424	Ignition Plier
				2628	Adjustable Hack Saw Frame with F1018 blade
				K54	Standard Feeler Gauge

Net Weight 57 lbs.

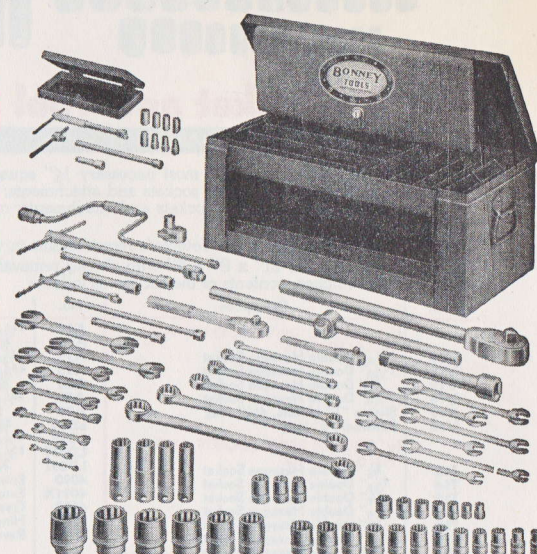


The Bonney BBI Set contains all the most useful 1/2" square drive double hexagon, extra deep double hexagon, and double square sockets and attachments; combination box and open end wrenches; Zenel open end wrenches; double offset box wrenches; punches; chisels; screw drivers; and miscellaneous tools. Designed as a mechanic's main tool set.

Packed in a metal box 23" x 11" x 9", with removable tray, end carrying handles, and lock and key.

# No. AVI Socket and Tool Set • 83 Pieces

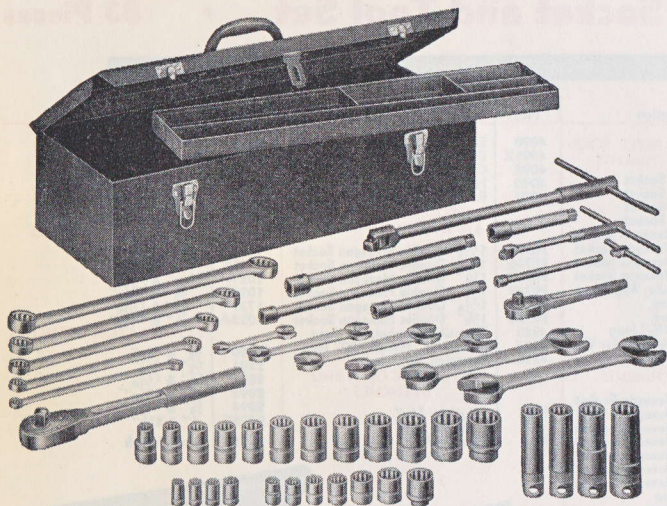
1/4, 3/8, 1/2, 3/4 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

No.	Description	No.	Description	No.	Description				
<b>1/4" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>									
V6	3/16" Hexagon Socket	4090	Extension, 5" long	H16	3/8" & 7/16"				
V7	7/32" Hexagon Socket	4091X	Extension, 10" long	H18	13/32" & 15/32"				
V8	7/16" Hexagon Socket	4092	Cross Handle, 8" long	<b>TAPPET WRENCHES</b>					
V9	9/32" Hexagon Socket	4096	Hinge Handle, 15" long	422	(two each) 1/4" & 9/16"				
V10	5/16" Double Hexagon Socket	4098	Reversible Ratchet, 10" long	424	(two each) 5/8" & 1 1/16"				
V11	11/32" Double Hexagon Socket	<b>3/8" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>		426	(two each) 3/8" & 7/8"				
V12	3/8" Double Hexagon Socket	HD34	1 1/16" Double Hexagon Socket	1723	3/8" & 7/16"				
V14	7/16" Double Hexagon Socket	HD36	1 1/8" Double Hexagon Socket	1725B	1/2" & 9/16"				
V17	Sliding "T" Handle, 4 1/2" long	HD40	1 1/4" Double Hexagon Socket	1027	1 1/2" & 1 1/16"				
V18	Extension, 6" long	HD42	1 1/16" Double Hexagon Socket	1028S	3/8" & 2 1/2"				
V19	Extension, 9" long	HD46	1 7/8" Double Hexagon Socket	1731	3/4" & 1 1/2"				
V26	Hinge Handle, 5 3/4" long	HD48	1 1/2" Double Hexagon Socket	1033A	7/8" & 1 5/8"				
V27	Cross Handle, 3 1/2" long for V26	4285	Reversible Ratchet, 20" long	<b>15° ANGLE BOX WRENCHES</b>					
<b>3/4" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>									
T12	3/8" Double Hexagon Socket	4287	Sliding "T" Handle, 20" long	2890	3/8" & 7/16"				
T14	7/16" Double Hexagon Socket	4290	Extension, 8 1/2" long	2891	1/2" & 9/16"				
T16	1" Double Hexagon Socket	<b>MINIATURE OPEN END WRENCHES</b>		2892	5/8" & 1 1/16"				
T18	9/16" Double Hexagon Socket	H10	3/16" & 7/32"	2893	3/4" & 1 1/16"				
T20	5/8" Double Hexagon Socket	H12	1/4" & 9/32"	2894	7/8" & 1 5/8"				
T22	11/16" Double Hexagon Socket	H14	5/16" & 11/32"	2895C	1" & 1 1/8"				
T24	3/4" Double Hexagon Socket								
T4	Extension, 6" long								
T5	Extension, 12" long								
T30	Hinge Handle, 8 1/2" long								
T32	Cross Handle, 6" long								
T35	Reversible Ratchet, 7" long								
<b>1/2" SQUARE DRIVE SOCKETS &amp; ATTACHMENTS</b>									
A14	7/16" Double Hexagon Socket								
A16	1/2" Double Hexagon Socket								
A18	9/16" Double Hexagon Socket								
A19	19/32" Double Hexagon Socket								
A20	5/8" Double Hexagon Socket								
A22	11/16" Double Hexagon Socket								
A24	3/4" Double Hexagon Socket								
A25	25/32" Double Hexagon Socket								
A26	1 1/32" Double Hexagon Socket								
A28	7/8" Double Hexagon Socket								
A30	15/16" Double Hexagon Socket								
A32	1" Double Hexagon Socket								
LD20	5/8" Extra Deep Double Hexagon Socket, 3 1/4" long								
LD22	11/16" Extra Deep Double Hexagon Socket, 3 1/4" long								
LD26T	13/16" Extra Deep Double Hexagon Socket, 3 1/4" long								
LD28T	7/8" Extra Deep Double Hexagon Socket, 3 1/4" long								
4114	7/16" Double Square Socket								
4116	1/2" Double Square Socket								
4118	5/8" Double Square Socket								
4085	Speeder, 20" long								

The Bonney AVI Set contains all the most useful 1/4" square drive sockets and attachments; 3/8" square drive double hexagon sockets and attachments; 1/2" square drive double hexagon, extra deep double hexagon, and double square sockets and attachments; 3/4" square drive double hexagon sockets and attachments; miniature open end wrenches; open end wrenches; 15° angle box wrenches; tappet wrenches; and a stud wrench.

Designed to meet the Veteran's requirements for a complete mechanic's tool set.

Packed in a metal box, 23" x 11" x 9", with removable tray, end carrying handles, and lock and key.



## No. AV Socket and Tool Set • 50 Pieces

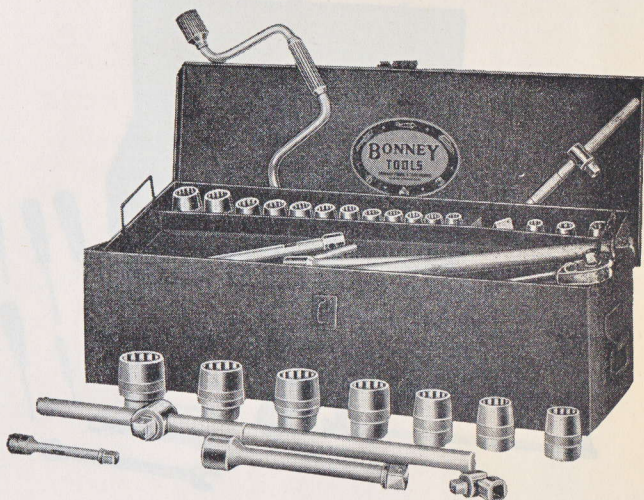
1/4, 3/8, 1/2 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

The Bonney AV Set contains the most necessary 1/4" square drive sockets and attachments; 3/8" square drive double hexagon sockets and attachments; 1/2" square drive double hexagon and extra deep double hexagon sockets and attachments; open end wrenches; and 15° angle box wrenches.

Designed to meet the apprentice Veteran's requirements in various trades.

Packed in a metal box, 21" x 8" x 5" with sliding removable tray, carrying handle, padlock hasp, and end catches, contents of the set are as follows:

No.	Description	No.	Description
<b>1/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
V10	5/16" Double Hexagon Socket	A22	11/16" Double Hexagon Socket
V11	11/32" Double Hexagon Socket	A24	3/4" Double Hexagon Socket
V12	3/8" Double Hexagon Socket	A25	25/32" Double Hexagon Socket
V14	7/16" Double Hexagon Socket	A26	13/16" Double Hexagon Socket
V17	Sliding "T" Handle, 4 1/2" long	A28	7/8" Double Hexagon Socket
V18	Extension, 6" long	A30	15/16" Double Hexagon Socket
<b>1/2" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
T12	3/8" Double Hexagon Socket	A32	1" Double Hexagon Socket
T14	7/16" Double Hexagon Socket	LD20	5/8" Extra Deep Dble. Hex. Socket, 3 1/4" long
T16	1/2" Double Hexagon Socket	LD22	11/8" Extra Deep Dble. Hex. Socket, 3 1/4" long
T18	9/16" Double Hexagon Socket	LD26T	13/16" Extra Deep Dble. Hex. Socket, 3 1/4" long
T20	5/8" Double Hexagon Socket	LD28T	7/8" Extra Deep Dble. Hex. Socket, 3 1/4" long
T22	11/8" Double Hexagon Socket	4090	Extension, 5" long
T24	3/4" Double Hexagon Socket	4091X	Extension, 10" long
T4	Extension, 6" long	4092	Cross Handle, 8" long
T5	Extension, 12" long	4096	Hinge Handle, 15" long
T30	Hinge Handle, 8 1/2" long	4098	Reversible Ratchet, 10" long
T32	Cross Handle, 6" long	<b>OPEN END WRENCHES</b>	
T35	Reversible Ratchet, 7" long	1723	3/8" & 7/16"
<b>1/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
A14	7/16" Double Hexagon Socket	1725B	1/2" & 9/16"
A16	1/2" Double Hexagon Socket	1027	19/32" & 11/16"
A18	9/16" Double Hexagon Socket	1028S	5/8" & 25/32"
A19	19/32" Double Hexagon Socket	1731	3/4" & 15/16"
A20	5/8" Double Hexagon Socket	1033A	7/8" & 1 1/16"
<b>15° ANGLE BOX WRENCHES</b>			
		2890	3/8" & 7/16"
		2891	1/2" & 9/16"
		2892	5/8" & 1 1/16"
		2893	3/4" & 1 3/16"
		2894	7/8" & 1 5/16"



## No. RH Socket Set

**34 Pieces**

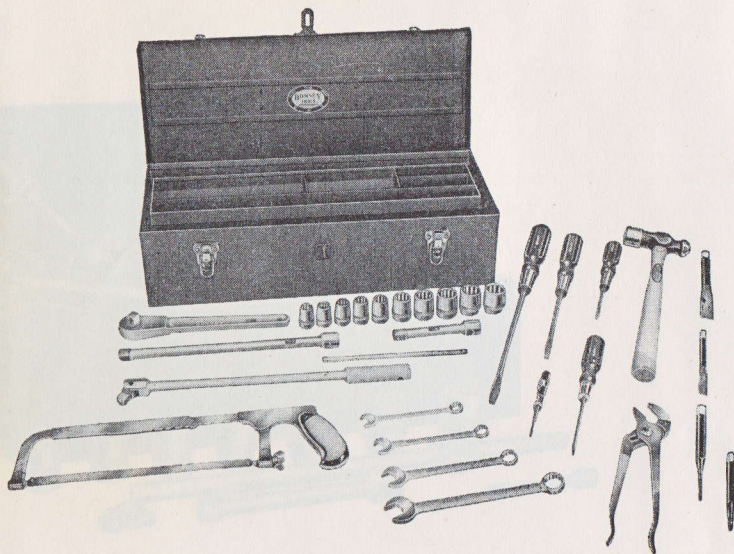
### **1/2, 3/4 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS**

The Bonney RH Set contains the most necessary 1/2" square drive double hexagon and double square sockets and attachments, and 3/4" square drive double hexagon sockets and attachments. Designed for heavy work on passenger cars, trucks, busses, tractors, marine, industrial and farm machinery.

Packed in a metal box 25" x 9" x 6", with removable tray, end carrying handles, and padlock hasp, the set is composed of:

No.	Description	No.	Description
<b>1/2" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>		4091X	Extension, 10" long
A14	7/16" Double Hexagon Socket	4092	Cross Handle, 8" long
A16	1/2" Double Hexagon Socket	4095	Universal Joint
A18	9/16" Double Hexagon Socket	4096	Hinge Handle, 15" long
A19	19/32" Double Hexagon Socket	4098	Reversible Ratchet, 10" long
A20	3/8" Double Hexagon Socket	<b>3/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>	
A22	11/16" Double Hexagon Socket	HD30	1 5/16" Double Hexagon Socket
A24	3/4" Double Hexagon Socket	HD32	1" Double Hexagon Socket
A25	25/32" Double Hexagon Socket	HD34	1 1/16" Double Hexagon Socket
A26	13/16" Double Hexagon Socket	HD36	1 1/8" Double Hexagon Socket
A28	7/8" Double Hexagon Socket	HD40	1 1/4" Double Hexagon Socket
4114	7/8" Double Square Socket	HD42	1 5/16" Double Hexagon Socket
4116	1" Double Square Socket	HD46	1 7/16" Double Hexagon Socket
4118	9/16" Double Square Socket	HD48	1 1/2" Double Hexagon Socket
4001	Drag Link Socket	HD52	1 5/8" Double Hexagon Socket
4084	Brace, 14" long	4290	Extension, 8 1/2" long
4087	Sliding "T" Handle, 11" long	4291	Extension, 17" long
4090	Extension, 5" long	4287	Sliding "T" Handle, 20" long

Net Weight 48 lbs.



## No. JI Socket and Tool Set • 31 Pieces

### 1/2 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

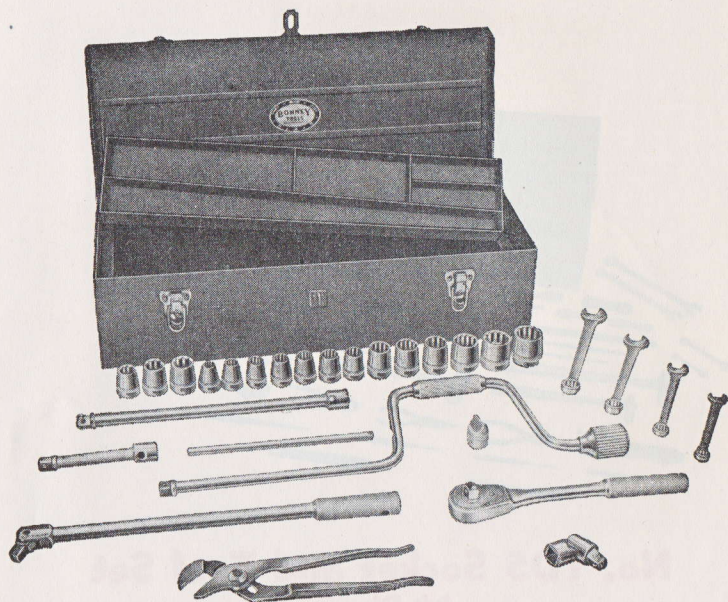
The Bonney JI Set contains the most necessary 1/2" square drive double hexagon sockets and attachments, combination box and open end wrenches, chisels, punches, screw drivers, and miscellaneous tools.

Designed for the mechanic just starting out.

Packed in a metal box 21" x 8" x 5", with removable tray, carrying handle, padlock hasp, and end catches, with ample room for the addition of other tools, the set includes one each of the following:

No.	Description	No.	Description
A14	7/16" Double Hexagon Socket	1163	9/16" Combination Wrench
A16	1/2" Double Hexagon Socket	1164	5/8" Combination Wrench
A18	9/16" Double Hexagon Socket	B420	Pump Plier
A19	19/32" Double Hexagon Socket	C2	Flat Chisel, 7/16" cut
A20	5/8" Double Hexagon Socket	C4	Flat Chisel, 3/4" cut
A22	11/16" Double Hexagon Socket	C34	Center Punch
A24	3/4" Double Hexagon Socket	C39	Pin Punch, 3/16" point
A25	29/32" Double Hexagon Socket	E02	Screw Driver, (neon tube) Pocket size, 2 1/4" blade
A26	15/16" Double Hexagon Socket	W03	Wood Handle Screw Driver, 3" blade
A28	7/8" Double Hexagon Socket	W06	Wood Handle Screw Driver, 6" blade
4090	Extension, 5" long	W010	Wood Handle Screw Driver, 10" blade
4091X	Extension, 10" long	WP2	Wood Handle Screw Driver, for No. 5
4092	Cross Handle, 8" long		to No. 9 inc. Phillips Screws
4093	Ratchet (not reversible) 9 5/8" long, with lug	PH7	1 lb. Ball Pein Hammer
4096	Hinge Handle, 15" long	2628	Adjustable Hack Saw Frame with No. F1018 Blade
1161	7/16" Combination Wrench		
1162	1/2" Combination Wrench		

Net Weight 22 lbs.



## No. B1 Socket and Tool Set • 29 Pieces

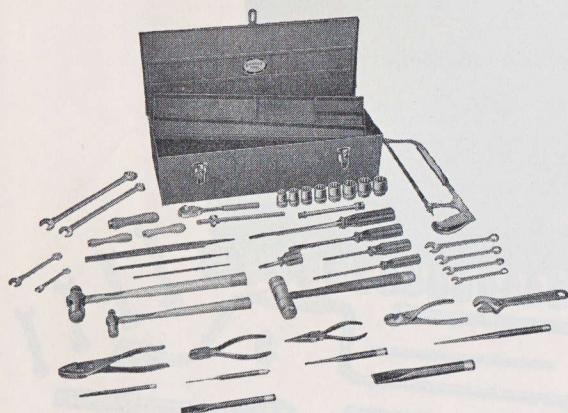
### 1/2 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

The Bonney B1 Set contains all the most useful 1/2" square drive double hexagon and double square sockets and attachments, plus an assortment of combination box and open end wrenches and an adjustable plier.

Packed in a metal box 21" x 8" x 5", with sliding removable tray, carrying handle, padlock hasp, and end catches, the contents of the set are as follows:

No.	Description	No.	Description
A14	7/16" Double Hexagon Socket	4120	3/8" Double Square Socket
A16	1/2" Double Hexagon Socket	4001	15/16" Drag Link Socket
A18	9/16" Double Hexagon Socket	4085	Speeder, 19 3/4" long
A19	1 1/32" Double Hexagon Socket	4090	Extension, 5" long
A20	5/8" Double Hexagon Socket	4091X	Extension, 10" long
A22	11/16" Double Hexagon Socket	4092	Cross Handle, 8" long
A24	3/4" Double Hexagon Socket	4095	Universal Joint
A25	25/32" Double Hexagon Socket	4096	Hinge Handle, 15" long
A26	13/16" Double Hexagon Socket	4098	Reversible Ratchet, 10" long
A28	7/8" Double Hexagon Socket	1161	1/16" Combination Wrench
A30	15/16" Double Hexagon Socket	1162	1/2" Combination Wrench
A32	1" Double Hexagon Socket	1163	9/16" Combination Wrench
4114	7/16" Double Square Socket	1164	3/8" Combination Wrench
4116	1/2" Double Square Socket	B420	Pump Plier
4118	9/16" Double Square Socket		

Net Weight 24 lbs.



## No. TD5 Socket and Tool Set

### 44 Pieces

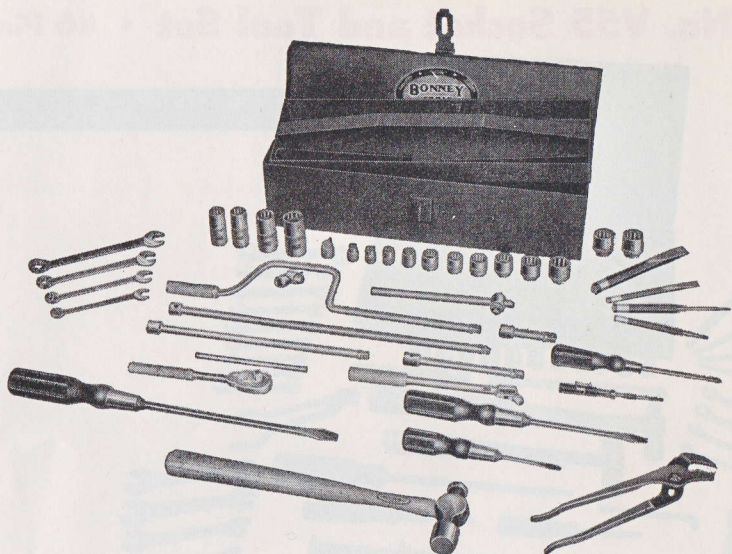
#### 3/8" INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

The Bonney TD5 Set contains the most necessary 3/8" square drive single hexagon sockets and attachments, combination box and open end wrenches, pliers, screw drivers, hammers, punches and chisels, and miscellaneous tools.

Designed especially for the aeronautical engine mechanic. Packed in a metal box 21" x 8" x 5": with a sliding removable tray, carrying handle, padlock hasp, and end catches, the set is composed of,

No.	Description	No.	Description
<b>3/8" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>		<b>SCREW DRIVERS</b>	
TH10	5/16" Hexagon Socket	04	Round Shank, 1/4" x 4" Blade
TH12	3/8" Hexagon Socket	06	Round Shank, 5/16" x 6" Blade
TH14	7/16" Hexagon Socket	S01	Adjusting, 1/4" x 13/4" Blade
TH16	1/2" Hexagon Socket	S08	Square Shank, 1/2" x 8" Blade
TH18	9/16" Hexagon Socket	006	Electricians' 3/16" x 6" Blade
TH20	5/8" Hexagon Socket	<b>HAMMERS</b>	
TH22	11/16" Hexagon Socket	PH1	2 oz. Ball Pein
TH24	3/4" Hexagon Socket	PH6	3/4 lb. Ball Pein
T4	Extension, 6" long	PH15	8 oz. Soft Face, with two regular tips
T35	Reversible Ratchet, 7" long	<b>PUNCHES AND CHISELS</b>	
T36	Sliding "T" Handle, 8" long	C3	Flat Chisel, 5/8" cut
<b>WRENCHES</b>		C5	Flat Chisel, 7/8" cut
1159	5/16" Combination	C26	Long Taper Punch, 3/16" point
1160	3/8" Combination	C28	Pin Punch, 1/8" point
1161	7/16" Combination	C29	Pin Punch, 3/16" point
1162	1/2" Combination	C34	Center Punch, 5" long
1163	9/16" Combination	<b>MISCELLANEOUS</b>	
1164	5/8" Combination	2628	Adjustable Hack Saw Frame and Blade
1165	11/16" Combination		6" Round Bastard File
1166	3/4" Combination		8" Extra Slim Taper File
BW8	8" Open End Adjustable		10" Half-Round Bastard File
<b>PLIERS</b>			Small File Handle
B26	7" Combination Side Cutter		Two Medium File Handles
B17	6" Diagonal Cutting		
B25	6" Long Nose Side Cutting		

Net Weight 27 lbs.



## No. TD6 Socket and Tool Set 42 Pieces

### 3/8 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS

The Bonney TD6 Set contains all the most useful 3/8" square drive double hexagon sockets and attachments, combination box and open end wrenches, chisels, punches, screw drivers, and an adjustable plier and ball pein hammer.

Packed in a metal box 19" x 5" x 4", with a removable tote tray, carrying handle, padlock hasp, and end catches, the set includes one each of the following:

No.	Description	No.	Description
<b>3/8" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>		T30	Hinge Handle, 8 1/2" long
T10	5/16" Double Hexagon Socket	T31	Extension, 3" long
T12	3/8" Double Hexagon Socket	T32	Cross Handle, 6" long
T14	7/16" Double Hexagon Socket	T35	Reversible Ratchet, 7" long
T16	1/2" Double Hexagon Socket	T36	Sliding "T" Handle, 8" long
T18	9/16" Double Hexagon Socket	<b>WRENCHES</b>	
T19	1 1/8" Double Hexagon Socket	1161	7/16" Combination Wrench
T20	1 1/4" Double Hexagon Socket	1162	1/2" Combination Wrench
T22	1 1/2" Double Hexagon Socket	1163	3/16" Combination Wrench
T24	1 3/4" Double Hexagon Socket	1164	5/8" Combination Wrench
T25	2 1/8" Double Hexagon Socket	<b>MISCELLANEOUS</b>	
T26	1 3/8" Double Hexagon Socket	B420	Pump Plier
T128	1 1/2" Double Hexagon Socket	C2	Flat Chisel, 7/16" cut
LT20	5/8" Extra-Deep Dble. Hex. Socket, 21 1/2" long	C4	Flat Chisel, 3/4" cut
LT22	1 1/16" Extra-Deep Dble. Hex. Socket, 23 1/8" long	C34	Center Punch
LT26	1 3/16" Extra-Deep Dble. Hex. Socket, 23 1/8" long	C29	Pin Punch, 3/16" point
LT28	7/8" Extra-Deep Dble. Hex. Socket, 21 1/2" long	E02	Screw Driver (Neon Tube) 1/8" x 2 1/4" blade
T3	Universal Joint	W03	Wood Handle Screw Driver, 7/32" x 3" blade
T4	Extension, 6" long	W06	Wood Handle Screw Driver, 5/16" x 6" blade
T5	Extension, 12" long	W010	Wood Handle Screw Driver, 7/16" x 10" blade
T6	Extension, 17" long	WP2	Wood Handle Screw Driver, for Phillips Screws
T9	Speeder, 17 1/2" long	Nos. 5 to 9 inc.	
T27	Drag Link Socket	PH6	3/4 lb. Ball Pein Hammer

Net Weight 20 1/2 lbs.

# No. V55 Socket and Tool Set • 46 Pieces



1/4 INCH SQUARE DRIVE  
SOCKETS AND ATTACHMENTS

The Bonney V55 Set is a complete set of extra-small and miniature tools, containing 1/4" square drive sockets and attachments, miniature open end and box wrenches, small punches and chisels, screw drivers, hammers, and miscellaneous tools.

Designed for "tune-up" and ignition specialists and those who service and install radios, electrical appliances and other small apparatus where parts are small and space in which to work is limited.

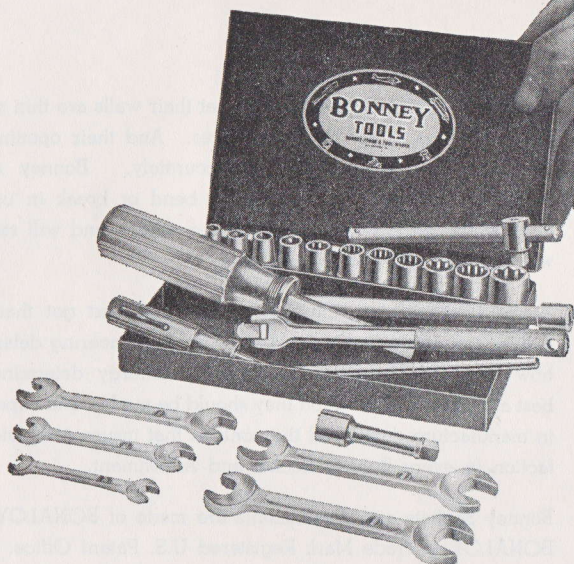
Packed in a metal box 11" x 6" x 1", contents are as follows:

No.	Description	No.	Description
<b>1/4" SQ. DRIVE SOCK. AND ATTACHMENTS</b>		<b>OPEN-END WRENCHES (Continued)</b>	
V6	3/16" Hexagon Socket	E28	3/8" at 15° end, 1/2" at 60° end
V7	7/32" Hexagon Socket	E30	1/2" at 15° end, 3/4" at 60° end
V8	1/4" Hexagon Socket	H10	3/16" & 7/32" Miniature
V9	9/32" Hexagon Socket	H12	1/4" & 5/32" Miniature
V10	5/16" Double Hexagon Socket	H14	3/8" & 1/2" Miniature
V11	11/32" Double Hexagon Socket	H16	1/2" & 5/8" Miniature
V12	3/8" Double Hexagon Socket	H18	13/32" & 15/32" Miniature
V14	7/16" Double Hexagon Socket	<b>PUNCHES AND CHISELS</b>	
VS8	1/4" Double Square Socket	C1	Cold Chisel, 5" long, 3/16" edge
VS10	5/16" Double Square Socket	C31	Pin Punch, 1/16" point
VS12	3/8" Double Square Socket	C32	Pin Punch, 5/64" point
V17	Sliding "T" Handle, 4 1/2" long	C33	Pin Punch, 3/32" point
V18	Extension, 6" long	C36	Center Punch, 4" long, 1/16" point
<b>BOX WRENCHES</b>		<b>SCREW DRIVERS</b>	
E40	3/16" & 13/64" Extra-Small with Hexagon opening	E01	Pocket Size, 2" blade, 1/8" tip
E42	7/32" & 15/64" Extra-Small with Hexagon opening	E02	2" Blade, 1/8" tip (neon tube)
E44	1/8" & 9/32" Extra-Small with Dble. Hex. open.	006	6" Blade, 3/16" tip
E46	5/16" & 11/32" Extra-Small with Dble. Hex. open.	<b>MISCELLANEOUS TOOLS</b>	
<b>OPEN-END WRENCHES</b>		B42	Ignition Plier
E14	13/64" at 15° end, 15/64" at 60° end	E55	Tweezer, 5" long
E16	15/64" at 15° end, 13/64" at 60° end	K6	Holding Tool, 6" reach
E18	7/32" at 15° end, 1/4" at 60° end	PH1	2 oz. Ball Pein Hammer
E20	1/4" at 15° end, 7/32" at 60° end	PH17	1 1/2 oz. Soft-face Hammer
E22	9/32" at 15° end, 3/16" at 60° end		5" Point File
E24	5/16" at 15° end, 9/32" at 60° end	K52	Ignition Feeler Gauge
E26	11/32" at 15° end, 3/8" at 60° end		

Net Weight 4 lbs. 2 oz.

# No. V52 Socket and Tool Set • 23 Pieces

1/4 INCH SQUARE DRIVE SOCKETS AND ATTACHMENTS



The Bonney V52 Set is a complete set of extra-small 1/4" square drive sockets and attachments, plus an assortment of miniature open end wrenches and a pocket size screw driver.

Designed for electrical, radio, ignition work, etc.

Packed in a metal box 6" x 4" x 1", the set is composed of:

No.	Description	No.	Description
<b>1/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>		V18	Extension, 6" long
V6	3/16" Hexagon Socket	V19	Extension, 2" long
V7	7/32" Hexagon Socket	V22	Screw Driver Handle, non-conductor type, 6" overall
V8	1/4" Hexagon Socket	V26	Hinge Handle, 5 3/4" long
V9	9/32" Hexagon Socket	V27	Cross Handle, 3 1/2" long for V26
V10	5/16" Double Hexagon Socket	<b>MINIATURE OPEN-END WRENCHES</b>	
V11	11/32" Double Hexagon Socket	H10	3/16" & 7/32" openings
V12	3/8" Double Hexagon Socket	H12	1/4" & 9/32" openings
V14	7/16" Double Hexagon Socket	H14	5/16" & 11/32" openings
V8	1/4" Double Square Socket	H16	3/8" & 7/16" openings
V510	5/16" Double Square Socket	H18	13/32" & 15/32" openings
V512	3/8" Double Square Socket	001	Pocket Size Screw Driver, non-conductor type
V17	Sliding 'T' Handle, 4 1/2" long		

Net Weight 2 lbs.

**B**ONNEY SOCKETS are strong—yet their walls are thin enough to get into extremely tight places. And their openings are precision broached so they fit accurately. Bonney Attachments are tough and strong—won't bend or break in use and Bonney Ratchets are positive and free-acting—and will stay that way through years of hard usage.

Bonney Sockets and Attachments did not "just get that way"—they are **made** that way. Design and engineering determined how they should be made—expert metallurgy determined the best alloy steels from which they should be made—and experience in manufacture developed the controls that insure complete satisfaction in every Bonney Socket and Attachment.

Bonney Sockets and Attachments are made of BONALOY steel. BONALOY is Trade Mark Registered U.S. Patent Office.

Bonney Sockets and Attachments are made in  $\frac{1}{4}$ " drive size for light work— $\frac{3}{8}$ " and  $\frac{1}{2}$ " for average use—and in  $\frac{3}{4}$ " and 1" drives for heavy duty jobs. In this complete range of Bonney Sockets and Attachments you will be sure to find the combinations you need—and from long, dependable service you will find too, that "If it's Bonney—It's the Best!"



V22



V25



V26



V17



V18



V19



V27

# Bonaloy Extra Small Series

**1/4 INCH SQUARE DRIVE**

## Handles and Attachments

No.	Description
V17	Sliding "T" Handle, 4 1/2" long
V18	Extension, 6" long
V19	Extension, 2" long
V22	Screw Driver Handle, non-conductor type, 6" overall
V25	Reversible Ratchet, 4 1/2" long
V26	Hinge Handle, 5 3/4" long
V27	Cross Handle, 3 1/2" long for V26

## Sockets

No.	Opening	No.	Opening
V6	3/16" Hexagon	V12	3/8" Double Hexagon
V7	7/32" Hexagon	V14	7/16" Double Hexagon
V8	1/4" Hexagon	VS8	1/4" Double Square
V9	9/32" Hexagon	VS10	5/16" Double Square
V10	5/16" Double Hexagon	VS12	3/8" Double Square
V11	11/32" Double Hexagon		



V6



V7



V8



V9



V10



V11



V12



V14



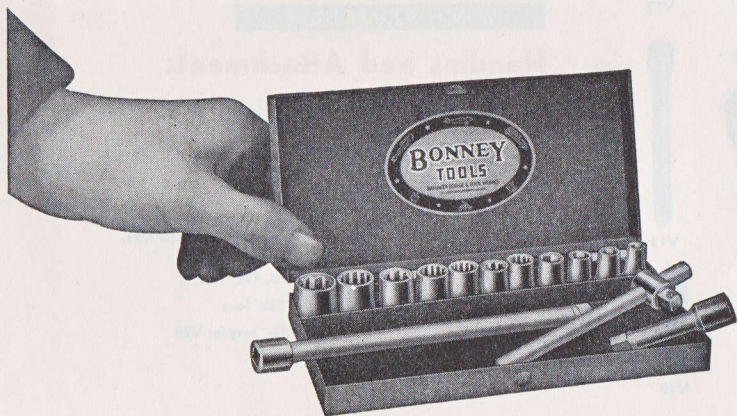
VS8



VS10



VS12



## No. V50 Extra-Small Series Socket Set

1/4 INCH SQUARE DRIVE

### 14 Pieces

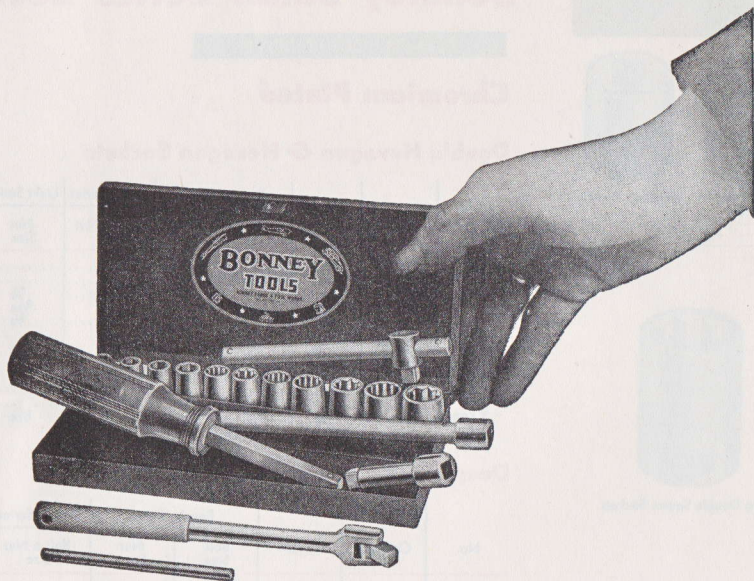
The Bonney V50 Set contains the most necessary extra-small 1/4" square drive sockets and attachments.

Designed for electrical, radio, ignition work, etc.

Packed in a metal box 6" x 3" x 1", set includes one each of the following:

No.	Description	No.	Description
V6	3/16" Hexagon Socket	V14	7/16" Double Hexagon Socket
V7	7/32" Hexagon Socket	VS8	1/4" Double Square Socket
V8	1/4" Hexagon Socket	VS10	5/16" Double Square Socket
V9	9/32" Hexagon Socket	VS12	3/8" Double Square Socket
V10	5/16" Double Hexagon Socket	V18	Extension, 6" long
V11	11/32" Double Hexagon Socket	V19	Extension, 2" long
V12	3/8" Double Hexagon Socket	V17	Sliding "T" Handle, 4 1/2" long

Net Weight 1 lb. 5 oz.



## No. V51 Extra-Small Series Socket Set

1/4 INCH SQUARE DRIVE

### 17 Pieces

The Bonney V51 Set is a complete set of extra-small 1/4" square drive sockets and attachments.

Designed for making adjustments to distributors, carburetors, generators, etc.

Packed in a metal box 6" x 3" x 1", contents are as follows:

No.	Description	No.	Description
V6	3/16" Hexagon Socket	VS10	5/16" Double Square Socket
V7	7/32" Hexagon Socket	VS12	3/8" Double Square Socket
V8	1/4" Hexagon Socket	V17	Sliding 'T' Handle, 4 1/2" long
V9	9/32" Hexagon Socket	V18	Extension, 6" long
V10	5/16" Double Hexagon Socket	V19	Extension, 2" long
V11	11/32" Double Hexagon Socket	V22	Screw Driver Handle, non-conductor type, 6" long
V12	3/8" Double Hexagon Socket	V26	Hinge Handle, 5 3/4" long
V14	7/16" Double Hexagon Socket	V27	Cross Handle, 3 1/2" long for V26
VS8	1/4" Double Square Socket		

Net Weight 1 3/4 lbs.

# Bonaloy Small Series Sockets

3/8 INCH SQUARE DRIVE

## Chromium Plated

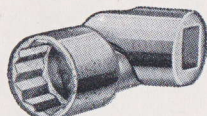
### Double Hexagon & Hexagon Sockets



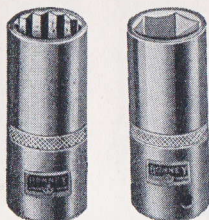
Double Hexagon Sockets Hexagon Sockets



Deep Double Square Sockets



Flexible Double Hexagon Sockets



Extra-Deep Double Hexagon Sockets Extra-Deep Hexagon Sockets

Double Hexagon No.	Hexagon No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screws
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
T 10	TH 10	5/16					
T 12	TH 12	3/8	1/4	1/4			
T 14	TH 14	7/16		1/4		1/4	1/4
T 16	TH 16	1/2		5/16	1/4	5/16	5/16
T 18	TH 18	9/16		5/16		3/8	3/8
T 19		1 3/32			5/16		
T 20	TH 20	5/8	7/16	3/8		7/16	7/16
T 22	TH 22	11/16		3/8	3/8		
T 24	TH 24	3/4	1/2	7/16		1/2	1/2
T 25		25/32			7/16		
T 26		13/16		1/2			9/16
T 128		7/8	9/16	9/16	1/2	9/16	5/8

### Deep Double Square Sockets

No.	Opening	Length	Regular Series		Heavy Series	Set Screw
			Bolt Size	Nut Size	Bolt & Nut Size	
TS 12	3/8	1 1/2	1/4			3/8
TS 14	7/16	1 1/2		1/4		7/16
TS 16	1/2	1 1/2	5/16		1/4	1/2
TS 18	9/16	1 1/2		5/16		9/16
TS 20	5/8	1 1/2	7/16	3/8		5/8

### Flexible Double Hexagon Sockets

No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
TU 14	7/16		1/4		1/4	3/4
TU 16	1/2	5/16		1/4	5/16	1 1/8
TU 18	9/16	3/8	5/16		3/8	1 1/4
TU 20	5/8	7/16	3/8		7/16	1 1/2

### Double Hexagon & Hexagon Extra Deep Sockets

Double Hexagon No.	Hexagon No.	Opening	Length	Regular Series		Heavy Series	Light Series	Cap Screw
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
LT 12		3/8	2	1/4				1 1/4
LT 14	T 140	7/16	2		1/4		5/16	5/8
LT 16	T 160	1/2	2	5/16		1/4	3/8	3/4
LT 18	T 180	9/16	2	3/8	5/16		7/16	7/8
LT 20	T 200	5/8	2 1/4	7/16	3/8			
LT 22	T 220	11/16	2 3/8			3/8		
LT 24	T 240	3/4	2 3/8	1/2	7/16		1/2	1 1/2
LT 26	T 260	13/16	2 3/8		1/2			1 3/4
LT 28	T 280	7/8	2 1/2	9/16	9/16	1/2	9/16	2

# Bonaloy Small Series Handles and Attachments

**3/8 INCH SQUARE DRIVE**

**Chromium Plated**

No.	Description
T2	Offset Handle, 7" long
T3	Universal Joint
T4	Extension, 6" long
T5	Extension, 12" long
T6	Extension, 17" long
T7	1/2" Crowfoot attachment
T8	3/16" Crowfoot attachment
T9	Speeder, 17 1/2" long
T27	Drag Link Socket
T28	Ratchet Handle with Lug, 6 1/2" long
T29A	Lug for Ratchet No. T28
T30	Hinge Handle, 8 1/2" long
T31	Extension, 3" long
T32	Cross Handle, 6" long
T35	Reversible Ratchet, 7" long
T36	Sliding 'T' Handle, 8" long
T42	Screw Driver Handle, non-conductor type, 5 1/8" long



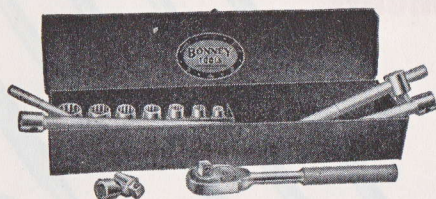
# Small Series Socket Sets

**3/8" INCH SQUARE DRIVE**

## No. TD11 Set 13 Pieces

The Bonney TD11 Set contains the most necessary 3/8" square drive double hexagon sockets and attachments.

Packed in a metal box 13" x 3" x 2", the set includes:



### Contents

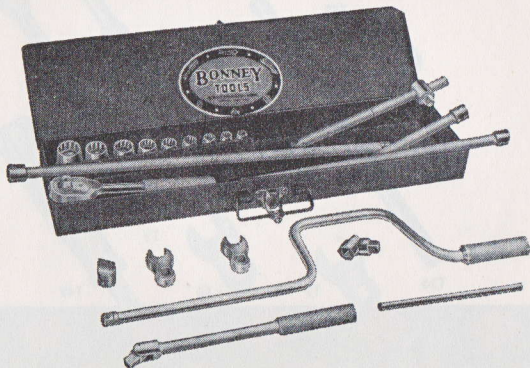
No.	Description
T10	5/16" Double Hexagon Socket
T12	3/8" Double Hexagon Socket
T14	7/16" Double Hexagon Socket
T16	1/2" Double Hexagon Socket
T18	9/16" Double Hexagon Socket
T19	1 1/32" Double Hexagon Socket
T20	5/8" Double Hexagon Socket
T3	Universal Joint
T4	Extension, 6" long
T5	Extension, 12" long
T32	Cross Handle, 6" long
T35	Reversible Ratchet, 7" long
T36	Sliding "T" Handle, 8" long

Net Weight 2 3/4 lbs.

## No. TD12 Set 21 Pieces

The Bonney TD12 Set contains all the most useful 3/8" square drive double hexagon sockets and attachments.

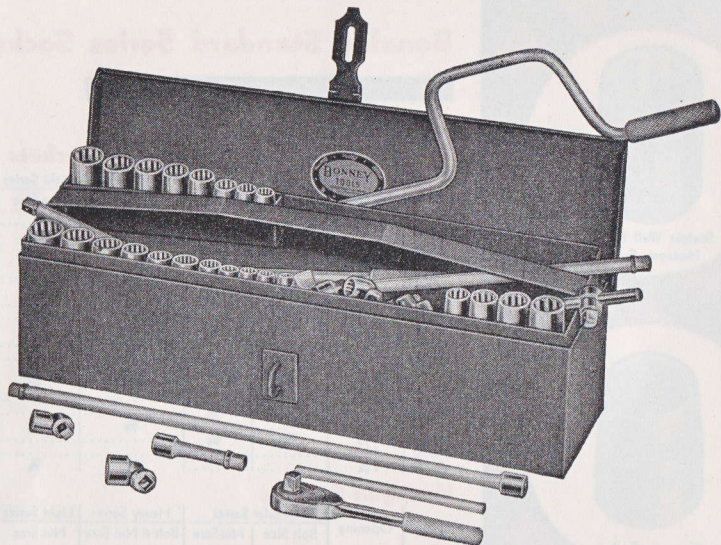
Packed in a metal box 18" x 4" x 2", with carrying handle, contents of the set are:



### Contents

No.	Description
T10	5/16" Double Hexagon Socket
T12	3/8" Double Hexagon Socket
T14	7/16" Double Hexagon Socket
T16	1/2" Double Hexagon Socket
T18	9/16" Double Hexagon Socket
T19	1 1/32" Double Hexagon Socket
T20	5/8" Double Hexagon Socket
T22	1 1/16" Double Hexagon Socket
T24	3/4" Double Hexagon Socket
T3	Universal Joint
T4	Extension, 6" long
T5	Extension, 12" long
T6	Extension, 17" long
T7	1/2" Crowfoot Attachment
T8	9/16" Crowfoot Attachment
T9	Speeder, 17 1/2" long
T27	Drag Link Socket
T30	Hinge Handle, 8 1/2" long
T32	Cross Handle, 6" long
T35	Reversible Ratchet, 7 1/2" long
T36	Sliding "T" Handle, 8" long

Net Weight 7 1/2 lbs.



## No. TD4 Small Series Socket Set

### 39 Pieces

**$\frac{3}{8}$  INCH SQUARE DRIVE**

The Bonney TD4 Set is a complete set of small series sockets and attachments, including  $\frac{3}{8}$ " square drive double hexagon, extra deep double hexagon, double square, and flexible double hexagon sockets and attachments.

Packed in a metal box 19" x 5" x 4", with removable tote tray, carrying handle, padlock hasp, and end catches, contents are as follows:

No.	Description	No.	Description
T3	Universal Joint	TS20	$\frac{5}{16}$ " Double Square Socket, $1\frac{1}{2}$ " long
T4	Extension, 6" long	TU14	$\frac{7}{16}$ " Flexible Double Hexagon Socket
T5	Extension, 12" long	TU16	$\frac{1}{2}$ " Flexible Double Hexagon Socket
T6	Extension, 17" long	TU18	$\frac{9}{16}$ " Flexible Double Hexagon Socket
T9	Speeder, $17\frac{1}{2}$ " long	TU20	$\frac{5}{8}$ " Flexible Double Hexagon Socket
T10	$\frac{5}{16}$ " Double Hexagon Socket	LT14	$\frac{7}{16}$ " Extra Deep Double Hexagon Socket
T12	$\frac{3}{8}$ " Double Hexagon Socket	LT16	$\frac{1}{2}$ " Extra Deep Double Hexagon Socket
T14	$\frac{7}{16}$ " Double Hexagon Socket	LT18	$\frac{9}{16}$ " Extra Deep Double Hexagon Socket
T16	$\frac{1}{2}$ " Double Hexagon Socket	LT20	$\frac{5}{8}$ " Extra Deep Double Hexagon Socket
T18	$\frac{9}{16}$ " Double Hexagon Socket	LT22	$1\frac{1}{16}$ " Extra Deep Double Hexagon Socket
T19	$1\frac{3}{32}$ " Double Hexagon Socket	LT24	$\frac{3}{4}$ " Extra Deep Double Hexagon Socket
T20	$\frac{5}{8}$ " Double Hexagon Socket	LT26	$1\frac{3}{16}$ " Extra Deep Double Hexagon Socket
T22	$1\frac{1}{16}$ " Double Hexagon Socket	LT28	$\frac{7}{8}$ " Extra Deep Double Hexagon Socket
T24	$\frac{3}{4}$ " Double Hexagon Socket	T27	Drag Link Socket
T25	$\frac{23}{32}$ " Double Hexagon Socket	T30	Hinge Handle, $8\frac{1}{2}$ " long
T26	$1\frac{5}{16}$ " Double Hexagon Socket	T31	Extension, 3" long
T128	$\frac{7}{8}$ " Double Hexagon Socket	T32	Cross Handle, 6" long
TS14	$\frac{7}{16}$ " Double Square Socket, $1\frac{1}{2}$ " long	T35	Reversible Ratchet, 7" long
TS16	$\frac{1}{2}$ " Double Square Socket, $1\frac{1}{2}$ " long	T36	Sliding "T" Handle, 8" long
TS18	$\frac{9}{16}$ " Double Square Socket, $1\frac{1}{2}$ " long		

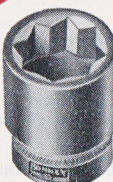
Net Weight 16 lbs.



Straight Wall Double Hexagon Socket



Hexagon Socket



Double Square Socket

## Bonaloy Standard Series Sockets

1/2 INCH SQUARE DRIVE

### Chromium Plated

### Straight Wall Double Hexagon Sockets

No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
A-12	3/8	1/4				
A-14	7/16		1/4			1/4
A-16	1/2	5/16		1/4	5/16	5/16
A-18	9/16	3/8	5/16		3/8	3/8
A-19	1 1/32			5/16		
A-20	7/8	7/16	3/8		7/16	7/16
A-21	2 1/32					
A-22	1 1/8			3/8		
A-24	3/4	1/2	7/16		1/2	1/2
A-25	2 5/32			7/16		
A-26	1 3/8		1/2			9/16
A-28	7/8	9/16	9/16	1/2	9/16	3/8
A-30	1 5/16	3/8		9/16	3/8	
A-31	2 1/32					
A-32	1		3/8	3/8	3/4	3/4
A-34	1 1/8	3/4	3/4			7/8
A-36	1 1/8					
A-38	1 3/16					
A-40	1 1/4			3/4	7/8	

### Hexagon Sockets

No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
4012	3/8	1/4				
4014	7/16		1/4		1/4	1/4
4016	1/2	5/16		1/4	5/16	5/16
4018	9/16	3/8	5/16		3/8	3/8
4019	1 1/32			5/16		
4020	7/8	7/16	3/8		7/16	7/16
4022	1 1/8			3/8		
4024	3/4	1/2	7/16		1/2	1/2
4025	2 5/32			7/16		
4026	1 3/8		1/2			9/16
4028	7/8	9/16	9/16	1/2	9/16	3/8
4030	1 5/16	3/8		9/16	3/8	
4031	2 1/32					
4032	1		3/8	3/8	3/4	3/4

### Double Square Sockets

No.	Opening	Regular Series		Heavy Series	Set Screw
		Bolt Size	Nut Size	Bolt & Nut Size	
4112	3/8	1/4			3/8
4114	7/16		1/4		7/16
4116	1/2	5/16		1/4	1/2
4118	9/16	3/8	5/16		9/16
4120	5/8	7/16	3/8		3/8
4122	1 1/8			3/8	
4124	3/4	1/2	7/16		3/4
4128	7/8	9/16	9/16	1/2	7/8
4132	1		3/8		1

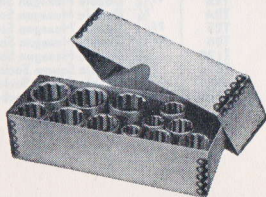
## No. A1 Set 12 Pieces

The Bonney A1 Set of sockets contains all of the most useful 1/2" square drive double hexagon sockets.

Packed in a cardboard box, included are one each of the following sockets:

No.	Description
A14	7/16" Double Hexagon Socket
A16	1/2" Double Hexagon Socket
A18	9/16" Double Hexagon Socket
A19	1 1/32" Double Hexagon Socket
A20	7/8" Double Hexagon Socket
A22	1 1/8" Double Hexagon Socket
A24	3/4" Double Hexagon Socket
A25	2 5/32" Double Hexagon Socket
A26	1 3/8" Double Hexagon Socket
A28	7/8" Double Hexagon Socket
A30	1 5/16" Double Hexagon Socket
A32	1" Double Hexagon Socket

Net Weight 2 1/4 lb.

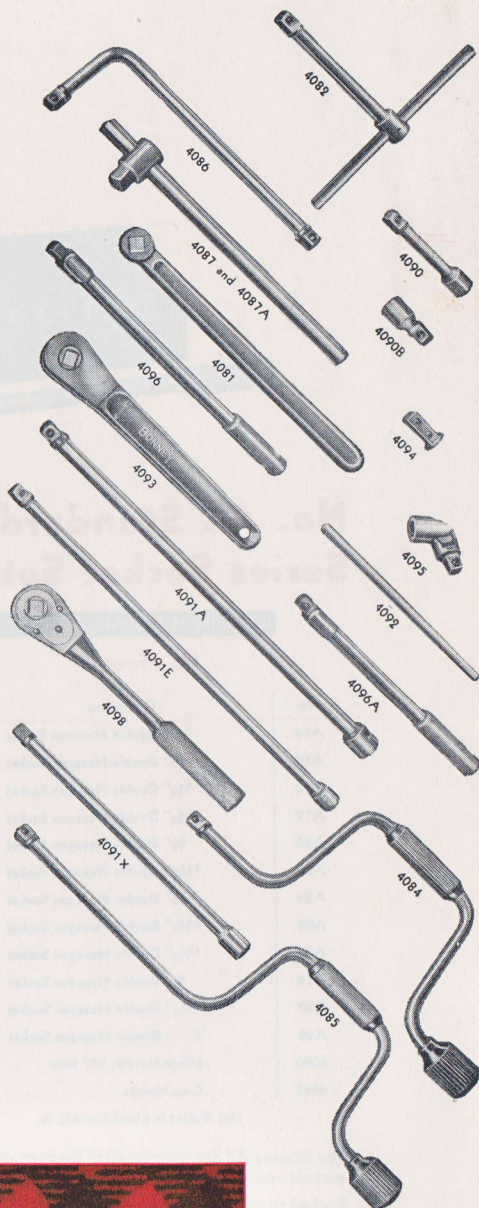


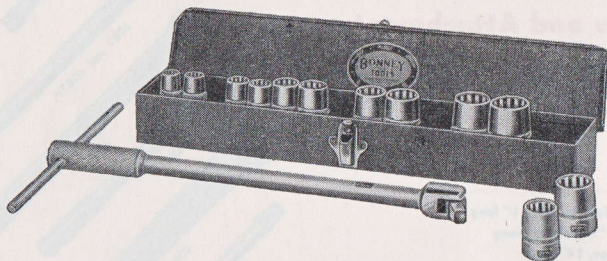
## Bonaloy Standard Series Handles and Attachments

**1/2 INCH SQUARE DRIVE**

**Chromium Plated**

No.	Description
4081	Offset Handle, 11" long
4082	"T" Handle, 6" long
4084	Brace, 14" long
4085	Speeder, 19 3/4" long
4086	Offset Handle, 10" long
4087	Sliding "T" Handle, 11" long
4087A	Sliding "T" Handle, 15" long
4090	Extension, 5" long
4090B	Extension, 2" long
4091X	Extension, 10" long
4091A	Extension, 20" long
4091E	Extension, 26" long
4092	Cross Handle, 8" long
4093	Ratchet with lug, 9 5/8" long
4094	Lug for Ratchet No. 4093
4095	Universal Joint
4096	Hinge Handle, 15" long
4096A	Hinge Handle, 11" long
4098	Reversible Ratchet, 10" long





## No. A2 Standard Series Socket Set

**1/2 INCH SQUARE DRIVE**

**14 Pieces**

No.	Description
A14	7/16" Double Hexagon Socket
A16	1/2" Double Hexagon Socket
A18	9/16" Double Hexagon Socket
A19	19/32" Double Hexagon Socket
A20	5/8" Double Hexagon Socket
A22	11/16" Double Hexagon Socket
A24	3/4" Double Hexagon Socket
A25	25/32" Double Hexagon Socket
A26	13/16" Double Hexagon Socket
A28	7/8" Double Hexagon Socket
A30	15/16" Double Hexagon Socket
A32	1" Double Hexagon Socket
4096	Hinge Handle, 15" long
4092	Cross Handle

Net Weight in Metal Box 6 1/4 lb.

The Bonney A2 Set contains all of the most useful 1/2" square drive double hexagon sockets and a hinge handle.

Packed in a metal box 16" x 2" x 2".



## No. A4 Standard Series Socket Set

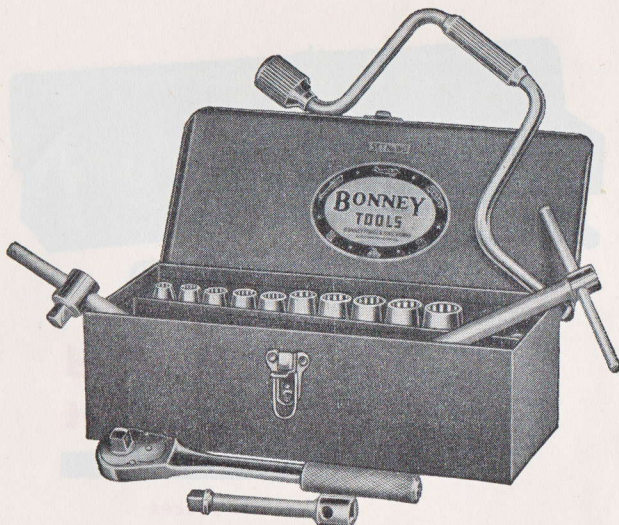
**1/2 INCH SQUARE DRIVE**

**17 Pieces**

No.	Description
A14	7/16" Double Hexagon Socket
A16	1/2" Double Hexagon Socket
A18	9/16" Double Hexagon Socket
A19	19/32" Double Hexagon Socket
A20	5/8" Double Hexagon Socket
A22	11/16" Double Hexagon Socket
A24	3/4" Double Hexagon Socket
A25	25/32" Double Hexagon Socket
A26	13/16" Double Hexagon Socket
A28	7/8" Double Hexagon Socket
A30	15/16" Double Hexagon Socket
A32	1" Double Hexagon Socket
A34	1 1/16" Double Hexagon Socket
A36	1 1/8" Double Hexagon Socket
A40	1 1/4" Double Hexagon Socket
4096	Hinge Handle, 15" long
4092	Cross Handle
	Net Weight 8 1/2 lbs.

The Bonney A4 Set is a complete set of 1/2" square drive double hexagon sockets and a hinge handle.

Packed in a metal box 20" x 3" x 2".



## No. WS Standard Series Socket Set

**1/2" INCH SQUARE DRIVE**

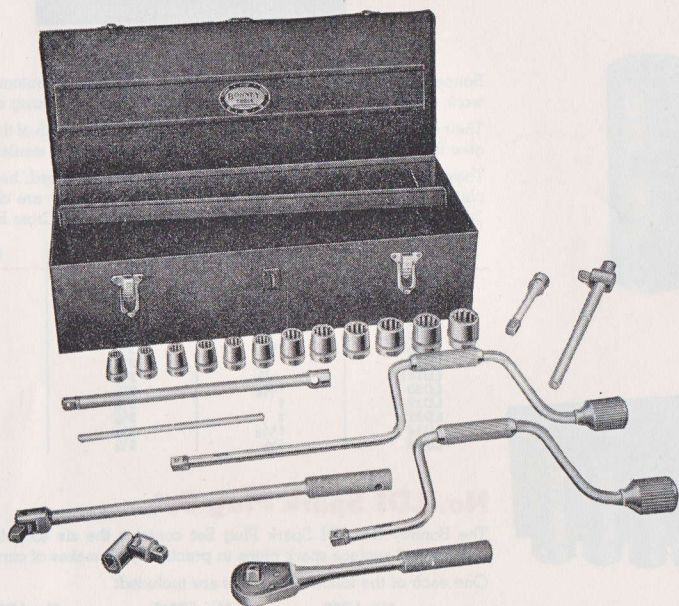
### 17 Pieces

The Bonney WS Set contains the most necessary 1/2" square drive double hexagon sockets and all of the most useful 1/2" attachments.

Packed in a metal box 15" x 6" x 4", with tray and carrying handle, the set includes:

No.	Description	No.	Description
A14	7/16" Double Hexagon Socket	A28	7/8" Double Hexagon Socket
A16	1/2" Double Hexagon Socket	4084	Brace, 14" long
A18	9/16" Double Hexagon Socket	4087	Sliding "T" Handle, 11" long
A19	19/32" Double Hexagon Socket	4090	Extension, 5" long
A20	5/8" Double Hexagon Socket	4091X	Extension, 10" long
A22	11/16" Double Hexagon Socket	4092	Cross Handle, 8" long
A24	3/4" Double Hexagon Socket	4095	Universal Joint
A25	25/32" Double Hexagon Socket	4098	Reversible Ratchet, 10" long
A26	13/16" Double Hexagon Socket		

Net Weight, 18 lbs.



## No. RSI Standard Series Socket Set

**1/2 INCH SQUARE DRIVE**

### 21 Pieces

The Bonney RSI Set contains all of the most useful 1/2" square drive double hexagon sockets and attachments.

Designed as a basic set.

Packed in a metal box 20" x 8" x 5", with carrying handle, padlock hasp, and end catches, with ample room for the addition of other tools, the contents of the set are as follows:

No.	Description	No.	Description
A14	7/16" Double Hexagon Socket	4084	Brace, 14" long
A16	9/16" Double Hexagon Socket	4085	Speeder, 19 3/4" long
A18	5/8" Double Hexagon Socket	4087	Sliding "T" Handle, 11" long
A19	11/16" Double Hexagon Socket	4090	Extension, 5" long
A20	3/4" Double Hexagon Socket	4091X	Extension, 10" long
A22	11/8" Double Hexagon Socket	4092	Cross Handle, 8" long
A24	1 1/8" Double Hexagon Socket	4095	Universal Joint
A25	1 1/4" Double Hexagon Socket	4096	Hinge Handle, 15" long
A26	1 1/2" Double Hexagon Socket	4098	Reversible Ratchet, 10" long
A28	1 3/4" Double Hexagon Socket		
A30	2" Double Hexagon Socket		
A32	2 1/4" Double Hexagon Socket		

Net Weight 22 lbs.

# Bonloy Extra-Deep Sockets

1/2 INCH SQUARE DRIVE

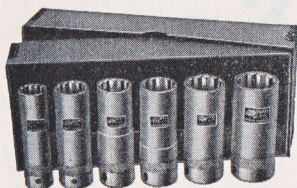
## Chromium Plated



Bonney Extra-Deep Sockets find many applications in automotive service work, but are especially suitable for removing and replacing spark plugs.

Their overall length, 3 1/4 inches, and the exceptional depth of their openings, give them an added advantage over ordinary sockets of similar type.

They are made of Bonaloy Steel, are carefully heat-treated, heavily chrome plated and polished to a high permanent lustre. They are designed with 1/2" square drive and have hole for use with No. 4092 Cross Handle.



No.	Openings	Length	Diameter
LD16	1/2	3 1/4	3/4
LD18	9/16	3 1/4	13/16
LD20	5/8	3 1/4	7/8
LD22	11/16	3 1/4	15/16
LD24	3/4	3 1/4	1 1/2
LD26T	13/16	3 1/4	1 1/16
LD28	7/8	3 1/4	1 3/16
LD28T	7/8	3 1/4	1 3/32
LD30	15/16	3 1/4	1 1/4
LD32	1	3 1/4	1 3/8
LD32T	1	3 1/4	1 9/32
LD34	1 1/16	3 1/4	1 7/16
LD36	1 1/8	3 1/4	1 1/2

## No. LDI Spark Plug Set

The Bonney No. LDI Spark Plug Set contains the six sockets which will remove and replace spark plugs in practically all makes of cars and trucks.

One each of the following sockets are included:

Nos. LD20  
LD22

Nos. LD26T  
LD28T

Nos. LD30  
LD32

Packed in a cardboard box.

## Chart of Spark Plugs for Passenger Cars

Make	1940	1941	1942	1946	1947	Make	1940	1941	1942	1946	1947
American Bantam	LD26T	LD26T	LD26T	LD26T	LD26T	LaSalle	10 M.M.	LD26T	LD26T	LD26T	LD26T
Buick	LD26T	LD26T	LD26T	LD26T	LD26T	Lincoln	LD26T	LD26T	LD26T	LD26T	LD26T
Cadillac	10 M.M.	10 M.M.	10 M.M.	10 M.M.	10 M.M.	Mercury	LD26T	LD26T	LD26T	LD26T	LD26T
Chevrolet	LD26T	10 M.M.	10 M.M.	10 M.M.	10 M.M.	Nash	LD26T	LD26T	LD26T	LD26T	LD26T
Chrysler	LD26T	LD26T	LD26T	LD26T	LD26T	Oldsmobile	LD26T	LD26T	LD26T	LD26T	LD26T
Crosley	LD26T	LD26T	LD26T	LD26T	LD26T	Packard	10 M.M.	10 M.M.	10 M.M.	10 M.M.	10 M.M.
DeSoto	LD26T	LD26T	LD26T	LD26T	LD26T	Plymouth	LD26T	LD26T	LD26T	LD26T	LD26T
Dodge	LD26T	LD26T	LD26T	LD26T	LD26T	Pontiac	LD26T	LD26T	LD26T	LD26T	LD26T
Ford	LD26T	LD26T	LD26T	LD26T	LD26T	Studebaker Champ.	LD28	LD26T	LD26T	LD26T	LD26T
Frazer	LD26T	LD26T	LD26T	LD26T	LD26T	Studebaker Com.	LD28	LD28	LD26T	LD26T	LD26T
Hudson 6	LD26T	LD26T	LD26T	LD26T	LD26T	Willys	LD26T	LD26T	LD26T	LD26T	LD26T
Hudson 8	LD26T	LD26T	LD26T	LD26T	LD26T	Willys Civ. Jeep	LD26T	LD26T	LD26T	LD26T	LD26T
Kaiser	LD26T	LD26T	LD26T	LD26T	LD26T					LD26T	LD26T

## Sockets for 10 M.M. Plugs

Make Plug	Socket No.
A C	LD20 LD22
Autolite	LD22
Champion	LD20
Bowes Seal Fast	LD22

# Bonaloy Special Sockets

**1/2 INCH SQUARE DRIVE**

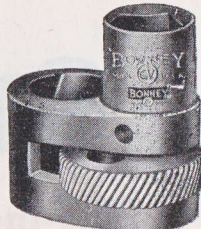
## Chromium Plated

### Stud Wrench

**No. 2591**—Made for use with 1/2" square drive handles and attachments, this stud wrench is found indispensable by mechanics for removing and setting studs.

Designed to take studs from 5/16" to 3/4" in diameter, it has an eccentrically mounted roller with a deeply milled edge which provides a non-slipping, non-burring, gripping device.

Made entirely of Bonaloy Steel, chrome plated and polished.



No. 2591—Stud Wrench

### Connecting Rod Socket for Ford V8

**No. F18**—A special socket for adjusting Ford V8 connecting rod bearing cap nuts. It has a 3/16" hexagon opening and is equipped for 1/2" square drive.

The nose of the socket is very thin to make this adjustment easily. Made of Bonaloy Steel, chrome plated and polished. Because of the thin wall construction of this socket, it cannot be guaranteed.



No. F18—Connecting Rod Socket for Ford V8

### Drag Link Sockets

Bonaloy Drag Link Sockets are made of Bonaloy Steel, carefully heat-treated and fully chrome plated. They are designed for use with 1/2" square drive attachments.

**No. 4001**—For drag link adjustments on passenger cars. Blade is 15/16" wide.

**No. 4001A**—For drag link adjustments on Model "A" Ford. Blade is 47/64" wide.

**No. 4002**—For drag link adjustments on trucks. Blade is 13/16" wide.



Drag Link Socket  
No. 4001 Series

### Crowfoot Attachments

Bonaloy Steel Crowfoot Attachments are useful in making adjustments in "hard-to-get-at" places. Designed with 1/2" square drive.

No.	Openings
2866	1/2" Double Hexagon
2868	9/16" Double Hexagon
2870	5/8" Double Hexagon
2872	11/16" Double Hexagon
2874	3/4" Double Hexagon



No. 2866 to No. 2874

### Special Crowfoot Open-End Attachments

Bonaloy Special Crowfoot Open-End Attachments are made of Bonaloy Steel, chrome plated and buffed to a high, permanent lustre. Designed for use with handles having 1/2" square drive.

No.	Openings	No.	Openings
6603C	1/2" Open End	6603B	11/16" Open End
6603D	7/16" Open End	6606	3/4" Open End
6603A	9/16" Open End	6606A	13/16" Open End
6603	5/8" Open End	6606B	7/8" Open End



No. 6603 Series



## Torque-Indicating Wrench

**No other Torque Wrench like it!**

Eleven outstanding features make this wrench the best buy in a torque-indicating wrench for any mechanic.

1. The No. 66 Bonney Torque Wrench has ratchet mechanism that is reversible.
2. It has no dials or gauges to get out of order or be damaged by careless handling.
3. Positive pre-setting of wrench eliminates all chances of error.
4. Three methods of telling when desired torque is reached—
  - (a) Red ratchet lever snaps to center.
  - (b) A sharp "click" is heard.
  - (c) Ratchet mechanism locks.
5. The No. 66 Bonney Torque Wrench is safe to use. The ratchet mechanism locks when the desired torque is reached—it does not allow the handle to swing free, thus preventing smashed fingers for the user.
6. Small head permits use in normally inaccessible places. Not necessary to watch a dial or gauge to tell when desired torque has been reached. No chance of error in reading dial or gauge.
7. Calibrated on a "dead weight" tester. Accuracy of the wrench is greater than consistent performance of bolts on which wrench is used.
8. All working parts carefully hardened, providing long life for wrench.
9. Fastest torque wrench on the market because of ratchet and absence of dials and gauges. (Wrench is set before starting job and work is done rapidly without slowing down to watch a dial.)

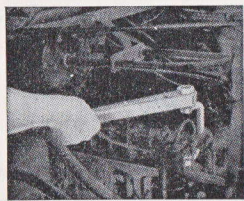
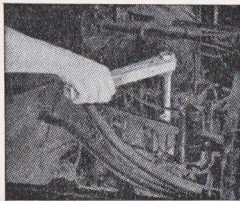
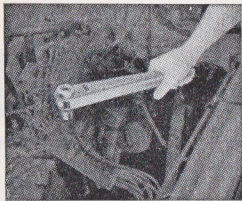
10. Wide range—25 to 125 foot pounds.
11. Has no coil springs.

### Pre-set for Accuracy... No Dials or Gauges Simple to Operate... Positive in Results

The No. 66 Bonney Torque Wrench is extremely simple to operate. All that is necessary is—

1. Set indicator at desired torque (foot pounds). To do this loosen indicator clamping screw slightly, move the indicator to desired position on scale and then tighten screw firmly.
2. Move ratchet lever (red reversing lever) to position at extreme left of wrench.
3. Operate wrench just as any ratchet wrench until the ratchet lever snaps over to the neutral position in center—then stop wrenching. There is a sharp "click" and the ratchet locks as a further signal that this point has been reached.
4. To tighten the next bolt or nut, simply move the ratchet lever back to position at the left of the wrench and repeat. The indicator is not moved except when a change of torque is desired.

You'll like the No. 66 Bonney Torque-Indicating Wrench. It's the simplest, strongest, sturdiest torque wrench on the market. Suitable for use with all  $\frac{1}{2}$  inch square drive sockets and attachments. The No. 66 Bonney Torque-Indicating Wrench has the factory approval of Chevrolet, Buick, Oldsmobile, Pontiac, Cadillac, Hudson, Packard, Graham-Paige and G.M.C. Trucks. Length 17 inches overall. Net Weight  $4\frac{1}{4}$  lbs.



Equipped with standard  $\frac{1}{2}$  inch square drive lug, the No. 66 Wrench can be used with any  $\frac{1}{2}$  inch square drive socket. The view above shows how easily cylinder head bolts may be tightened uniformly according to manufacturers specifications.

The above illustration shows the No. 66 Wrench being used with the No. 2613 close sweep Box Wrench Attachment in tightening all Chevrolet cylinder head bolts except the center one.

The center cylinder head bolt on Chevrolet engines is particularly difficult to reach because of rocker arm assembly and oil feed line. The No. 66 Wrench with the No. 2614 wide sweep Box Wrench Attachment makes it possible to tighten this bolt uniformly with all other cylinder head bolts.

## Bonney Torque Wrenches

The Bonney N50, N100, N150 Torque Wrenches are available in three sizes to take care of the majority of jobs on automobiles, trucks, tractors, aircraft, and marine engines. They are long and thin for access to the tight spots. The double scale is easily read from almost any position.

No.	Scale Range (Foot Pounds)
N 50	50 Foot Pounds
*N 100	100 Foot Pounds
N 150	150 Foot Pounds

\*The range of the N100 Torque Wrench is designed to handle the majority of requirements in the automotive field. The drive end accommodates any  $\frac{1}{2}$ " drive attachment or socket.

## Bonney Box Wrench Attachments for use with Torque Indicating Wrenches

Designed especially for drawing up cylinder head stud nuts on overhead valve motors with torque-indicating wrenches. These box wrench attachments are drop forged of Bonaloy Steel with plated finish. They have double hexagon box wrench openings and  $\frac{1}{2}$ " square drive for use with Torque-Indicating Wrenches.

No.	Double Hexagon Opening and Sweep
2613	$\frac{3}{4}$ " close sweep
2614	$\frac{3}{4}$ " wide sweep
2615A	$1\frac{1}{16}$ " close sweep
2615	$\frac{3}{8}$ " close sweep
2616	$\frac{3}{8}$ " wide sweep



Wide Sweep



Close Sweep

## Tensions in Foot Pounds Recommended for Spark Plugs

Plug Thread	Cast Iron Head	Aluminum Head
10MM	14	12
14MM	30	28
18MM	34	32
$\frac{7}{8}$ "—18	37	35



# TORQUE CHART

Foot pounds of torque for threads clean and dry.  
If threads are cleaned and oiled, applied torques  
should be reduced about 10%.

MAKE	MODELS	YEAR	CYLINDER HEADS		MOTOR BEARINGS		Fly Wheel To Crankshaft	MANIFOLDS		SPARK PLUGS	
			Cast Iron	Aluminum	Con. Rod Bear. Bolts	Main Bearing Caps		Intake	Exhaust	Cast Iron Heads	Aluminum Heads
Buick	40	Before 1940	65-70	—	45-50	60-65	24-25	25-30	25-30	12-17	14M.M.
Buick	60	Before 1940	65-70	—	60-65	15-20	15-20	25-30	25-30	12-17	14M.M.
Buick	40-50	1940-1941	65-70	—	45-50	120-130	45-55	25-30	25-30	25-30	14M.M.
Buick	40-50	1942-1946	65-70	—	45-50	120-130	45-55	25-30	25-30	25-30	14M.M.
Buick	60-70-80-90	1940-1941	65-70	—	60-65	120-130	45-55	25-30	25-30	7-10	10M.M.
Buick	60-70-80	1942-1946	65-70	—	60-65	120-130	45-55	25-30	25-30	22-28	10M.M.
Cadillac	V-8	Before 1940	70-75	—	55-60	130-140	65-70	25-30	25-30	35-40	10M.M.
Cadillac	V-16	Before 1940	70-75	—	55-60	100-110	65-70	25-30	25-30	7-10	10M.M.
Cadillac	30-32-36-72-90-75	1940	70-75	—	55-60	100-110	65-70	25-30	25-30	7-10	10M.M.
Cadillac	90	1940	70-75	—	55-60	100-110	65-70	25-30	25-30	7-10	10M.M.
Cadillac	All	1941	70-75	—	50-60	130-140	65-70	25-30	25-30	—	—
Cadillac	All	1942	70-75	—	50-60	140-150	65-70	25-30	25-30	—	—
Cadillac	All	1946	70-75	—	60-65	130-140	Hyd. 70-75	25-30	25-30	7-10	10M.M.
Chevrolet	All	1939	75-80	—	*40-45	*100-110	*35-40	—	—	25-30	14M.M.
Chevrolet	All plus 1-2, 3-4; 1-2 Ton Trucks	1940-1946	75-80	—	*40-45	*100-110	50-65	—	—	12-15	10M.M.
Chrysler											
Desoto		1939-1946									
Dodge											
Plymouth											
Ford	V-80	All	—	25-30	45-50	75-80	55-60	15-20	15-20	25-30	—
Ford	All Others	All	50-60	35-40	—	—	—	—	—	28-32	24-28
Hudson	6 Cyl.	Before 1940	45	45	52	92	65-70	—	—	24-28	20-24
Hudson	8 Cyl.	Before 1940	54	54	52	92	—	—	—	27.5	—
Hudson	6 Cyl.	1940-1941	40-45	—	40-45	55-75	40-50	15-20	20-30	25-30	14M.M.
Hudson	8 Cyl.	1940-1941	45-50	—	40-45	55-75	40-50	15-20	20-30	25-30	14M.M.
Hudson	All	1942-1946	6 Cyl.-40	—	40	75	45	15	20	28	—
Hudson	All	1942-1946	8 Cyl.-50	—	40	75	45	15	20	28	—
LaSalle	See Cadillac										
Lincoln	All	All	45-50	35-40	—	—	—	—	—	28-32	24-28
Lincoln Zephyr	All	All	—	35-40	—	—	—	—	—	28-32	24-28
Mercury	All	All	50-60	35-40	35-40	75-80	65-70	—	—	28-32	24-28
Nash	10-20-50	64	64	—	55	70	56	25	25	—	—
Nash	40	1941	60	—	30	70	56	25	25	—	—
Nash	80	All	70	—	55	73	131	—	—	—	—
Nash	40-40 "L" Head	1942-1946	57-60	—	27-30	66-70	52-56	—	—	25-30	14M.M.
Nash	46-50 Over-Head Valve	1942-1946	65-70	—	52-56	66-70	96-100	—	—	25-30	14M.M.
Oldsmobile	F, G and L	1939	63-70	—	x137-144	39-42	39-42	11-12	11-12	22-26	14M.M.
Oldsmobile	60-70-80	1940	60-70	—	59-55	z140	40-45	11-14	22-26	28-35	14M.M.
Oldsmobile	6 and 8 Cyl.	1941-1946	60-70	—	59-55	†100	55-60	11-14	22-26	28-35	14M.M.
Packard	6 and 8 Cyl.	Before 1942	61	—	60	83	—	—	—	—	—
Packard	Super 8	Before 1942	61	—	47	68	—	—	—	50 inch Lbs.	—
Packard	6 and 8 Cyl.	1942-1946	60-62	—	45-46	82-85	65-70	25-30	25-30	50 inch Lbs.	—
Packard	Super 8	1942-1946	60-62	—	55-58	82-85	65-70	25-30	25-30	—	—
Plymouth	See Chrysler										

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# Bonaloy Heavy Duty Sockets

**3/4 INCH SQUARE DRIVE**

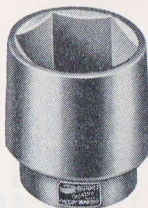
**Chromium Plated**

## Double Hexagon Sockets



Double Hexagon Sockets

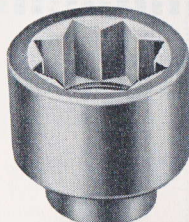
No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
HD 28	7/8	9/16	9/16	1/2	9/16	3/8
HD 30	1 5/16	5/8	.....	9/16	5/8	.....
HD 31	3 1/32	.....	.....	.....	.....	.....
HD 32	1	.....	3/8	.....	.....	3/4
HD 34	1 1/16	.....	.....	3/8	3/4	.....
HD 36	1 1/8	3/4	3/4	.....	.....	7/8
HD 38	1 3/16	.....	.....	.....	.....	.....
HD 40	1 1/4	.....	.....	3/4	7/8	.....
HD 42	1 5/16	7/8	7/8	.....	.....	1
HD 44	1 3/8	.....	.....	.....	.....	.....
HD 46	1 7/16	.....	.....	7/8	1	.....
HD 48	1 1/2	1	1	.....	.....	1 1/8
HD 50	1 9/16	.....	.....	.....	.....	.....
HD 52	1 5/8	.....	.....	1	1 1/8	.....
HD 54	1 11/16	1 1/8	1 1/8	.....	.....	1 1/4
HD 56	1 3/4	.....	.....	.....	.....	.....
HD 58	1 13/16	.....	.....	1 1/8	1 1/4	.....
HD 60	1 7/8	1 1/4	1 1/4	.....	.....	.....
HD 64	2	.....	.....	1 1/4	1 3/8	.....



Hexagon Sockets

## Hexagon Sockets

No.	Opening	Regular Series		Heavy Series	Light Series
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size
4266	2 1/16	1 3/8	1 3/8	.....	.....
4268	2 1/8	.....	.....	.....	.....
4270	2 3/16	.....	.....	1 3/8	1 1/2
4272	2 1/4	1 1/2	1 1/2	.....	.....



Double Square Sockets

## Double Square Sockets

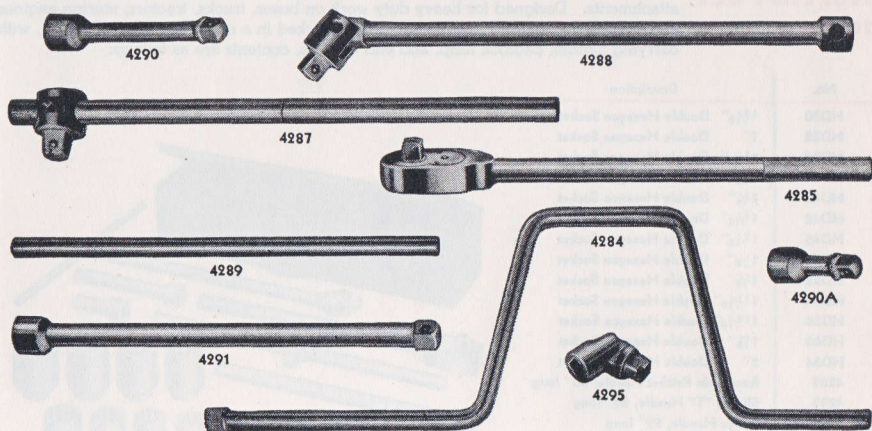
No.	Opening	Regular Series		Heavy Series	Set Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Set Screw
S4228	7/8	9/16	9/16	1/2	7/8
S4232	1	.....	5/8	.....	1
S4234	1 1/16	.....	.....	3/8	.....
S4240	1 1/4	.....	.....	3/4	1 1/4
S4246	1 7/16	.....	.....	7/8	.....

# Bonaloy Heavy Duty Handles and Attachments

**3/4 INCH SQUARE DRIVE**

**Chromium Plated**

No.	Description	No.	Description
4284	Brace, 28" long	4290	Extension, 8 1/2" long
4285	Reversible Ratchet Handle, 20" long	4290A	Extension, 4" long
4287	Sliding "T" Handle, 20" long	4291	Extension, 16 1/2" long
4288	Hinge Handle, 22" long	4295	Universal Joint
4289	Cross Handle, 16 3/8" long, for No. 4288		

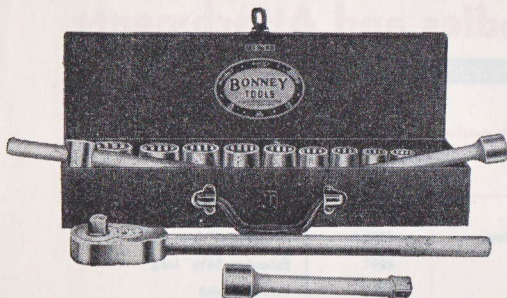


# Heavy Duty Socket Sets

3/4 INCH SQUARE DRIVE

## No. HD Set 13 Pieces

The Bonney HD Set contains the most necessary 3/4" square drive double hexagon sockets and attachments. Designed for heavy duty work on buses, trucks, tractors, marine engines and equipment, and industrial machinery. Packed in a metal box 21" x 6" x 3", with carrying handle and padlock hasp, one each of the following is included:

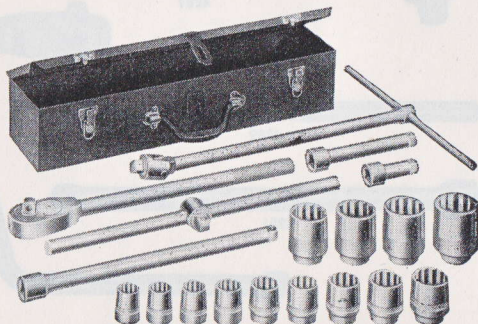


No.	Description
HD30	1 5/16" Double Hexagon Socket
HD32	1" Double Hexagon Socket
HD34	1 1/16" Double Hexagon Socket
HD36	1 1/8" Double Hexagon Socket
HD40	1 1/4" Double Hexagon Socket
HD42	1 5/16" Double Hexagon Socket
HD46	1 7/16" Double Hexagon Socket
HD48	1 1/2" Double Hexagon Socket
HD52	1 5/8" Double Hexagon Socket
4285	Reversible Ratchet Handle, 20" long
4287	Sliding "T" Handle, 20" long
4290	Extension, 8 1/2" long
4291	Extension, 17" long
Net Weight 27 lbs.	

## No. HDI Set 20 Pieces

The Bonney HDI Set is a complete set of 3/4" square drive double hexagon sockets and attachments. Designed for heavy duty work on buses, trucks, tractors, marine engines and equipment, and industrial machinery. Packed in a metal box 23" x 6" x 5", with carrying handle, padlock hasp, and end catches, contents are as follows:

No.	Description
HD30	1 5/16" Double Hexagon Socket
HD32	1" Double Hexagon Socket
HD34	1 1/16" Double Hexagon Socket
HD36	1 1/8" Double Hexagon Socket
HD40	1 1/4" Double Hexagon Socket
HD42	1 5/16" Double Hexagon Socket
HD46	1 7/16" Double Hexagon Socket
HD48	1 1/2" Double Hexagon Socket
HD52	1 5/8" Double Hexagon Socket
HD54	1 11/16" Double Hexagon Socket
HD58	1 13/16" Double Hexagon Socket
HD60	1 7/8" Double Hexagon Socket
HD64	2" Double Hexagon Socket
4285	Reversible Ratchet Handle, 20" long
4287	Sliding "T" Handle, 20" long
4288	Hinge Handle, 22" long
4289	Cross Handle, 16 3/8" long, for No. 4288.
4290	Extension, 8 1/2" long
4290A	Extension, 4" long
4291	Extension, 17" long
Net Weight 55 lbs.	



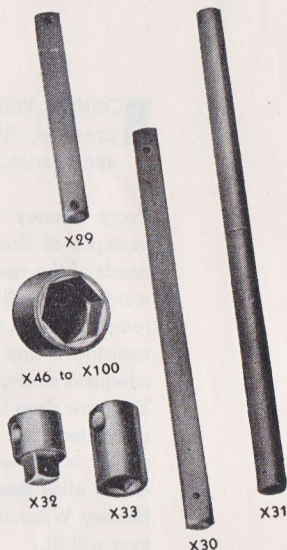
# Bonaloy Extra Heavy-Duty Socket Series

1 INCH SQUARE DRIVE

Chromium Plated

## Extra Heavy-Duty Hexagon Sockets

No.	Opening	Regular Series		Heavy Series	Light Series	Cap Screw
		Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
X46	1 7/16			7/8	1	
X48	1 1/2	1	1			1 1/8
X52	1 5/8			1	1 1/8	
X58	1 13/16			1 1/8	1 1/4	
X60	1 7/8	1 1/4	1 1/4			
X64	2			1 1/4	1 3/8	
X70	2 3/16			1 3/8	1 1/2	
X72	2 1/4	1 1/2	1 1/2			
X76	2 3/8			1 1/2		
X78	2 7/16	1 5/8	1 5/8			
X80	2 1/2					
X82	2 5/8			1 5/8		
X84	2 3/4	1 3/4	1 3/4			
X88	2 7/8			1 3/4		
X94	2 15/16			1 7/8		
X100	3			2		



## Extra Heavy-Duty Handles and Attachments

No.	Description	No.	Description
X29	Extension, 8 1/2" long	X32	Drive Head, Male
X30	Extension, 17 1/2" long	X33	Drive Head, Female
X31	Sliding Bar, 22" long		

## No. XH Extra Heavy-Duty Socket Set

12 Pieces

The Bonney XH Set contains all the most useful 1" square drive hexagon sockets and attachments.

Designed for extra heavy-duty work on buses, trucks, tractors, marine engines and equipment, and industrial machinery.

Packed in a metal box 23" x 6" x 5", with carrying handle, padlock hasp, and end catches, the set includes one each of the following:



No.	Description
X46	1 7/16" Hexagon Socket
X48	1 1/2" Hexagon Socket
X52	1 5/8" Hexagon Socket
X58	1 13/16" Hexagon Socket
X64	2" Hexagon Socket
X70	2 3/16" Hexagon Socket
X76	2 3/8" Hexagon Socket
X29	Extension, 8 1/2" long
X30	Extension, 17 1/2" long
X31	Sliding Bar, 22" long
X32	Drive Head, Male
X33	Drive Head, Female

Net Weight 42 lbs.

**B**ONNEY WRENCHES set the highest standards for clean, practical, lightweight design, strength and fine finish and appearance.

Every Bonney Wrench—open-end, box or combination—is an example of Bonney's engineering experience which keeps the needs of the user first. Bonney Wrenches are slim, thin, light in weight and well balanced. Their handles are rounded—no sharp, rough edges to make hands sore—wrench openings are accurate, assuring a firm hold on the nut—and heads are as compact as adequate strength will permit. Bonney Wrenches are strong too. They are drop forged from selected analysis alloy wrench steel—alloy steel first introduced by Bonney for wrenches—and constantly improved. This continued pioneering by Bonney in the use of alloy steels for wrenches means that you can be sure that Bonney Wrenches are strong enough to twist off any nut or bolt they will fit.

And this pioneering in making wrenches better and stronger has led to the development of Bonney ZENEL Wrenches—the strongest, toughest, longest-wearing wrenches on the market. Bonney ZENEL Wrenches are made from an exclusive steel analysis developed by Bonney metallurgists.

Bonney is also the leader when it comes to appearance. Bonney tools were the first tools on the market to be plated. This development has been constantly improved and Bonney Tools, today, are the best looking tools you can get.

Whatever your requirements for wrenches may be—you can be sure that for design, strength and appearance—"If it's Bonney—It's the Best!"

(BONALLOY and ZENEL are Trade Mark Registered U.S. Patent Office.)

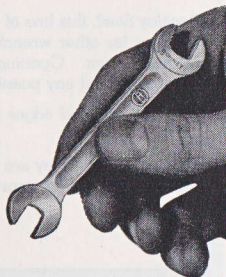
# Bonaloy Wrenches...Miniature and Electrical

## Miniature Wrenches

Bonaloy Open End Miniature Wrenches are ideal for adjustments on generators, radios, distributors, air cleaners, electrical parts and work where parts are small and space in which to work is limited.

They are drop forged of Bonaloy Steel, given a careful heat-treatment and heavily chrome plated with polished heads. A different size opening is milled in each end and heads are angled at 15° for efficiency. Handles are thin and concave to keep down weight.

No.	Size Openings	Length	Thickness of Head
H10	3/16 & 7/32	2 1/2	3/32
H12	1/4 & 9/32	3	5/32
H14	5/16 & 11/32	3 3/4	3/16
H15	9/32 & 3/8	3 3/4	3/16
H16	3/8 & 7/16	4 1/8	7/32
H18	13/32 & 15/32	4 1/8	7/32

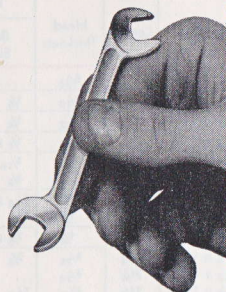


## Electrical Wrenches

Bonaloy Electrical Wrenches have a different size opening in each end with head on one end at 15° angle and the other end at 60° angle. They are drop forged of Bonaloy Steel with accurately milled openings, heat-treated their entire length and fully chrome plated with polished heads.

They are exceptionally useful for making adjustments on accessories and electrical apparatus where parts are small and space in which to work is limited.

No.	Size Openings		Length	Thickness of Head
	15° End	60° End		
E14	13/64	15/64	3	7/64
E16	15/64	13/64	3	7/64
E18	7/32	1/4	3	7/64
E20	1/4	7/32	3	7/64
E22	9/32	5/16	3 1/2	1/8
E24	5/16	9/32	3 1/2	1/8
E26	11/32	3/8	4	9/64
E28	3/8	11/32	4	9/64
E30	7/16	1/2	4 1/2	5/32



### No. 20 Miniature Wrench Set 5 Pieces

Contains one of each of the following:

No.	Size Openings	No.	Size Openings
H10	3/16 & 7/32	H16	3/8 & 7/16
H12	1/4 & 9/32	H18	13/32 & 15/32
H14	5/16 & 11/32		

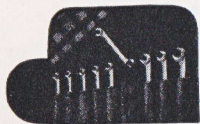
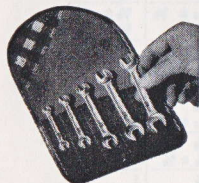
Packed in leatherette roll or cardboard box.

### No. 16 Electrical Wrench Set 9 Pieces

Contains one of each of the following:

No.	Size Openings	No.	Size Openings
E14	13/64 & 15/64	E24	5/16 & 9/32
E16	15/64 & 13/64	E26	11/32 & 3/8
E18	7/32 & 1/4	E28	3/8 & 11/32
E20	1/4 & 7/32	E30	7/16 & 1/2
E22	9/32 & 5/16		

Packed in leatherette roll or cardboard box.



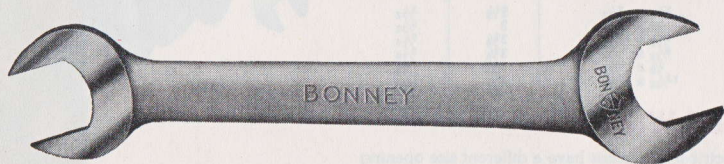
# Bonaloy Open End Wrenches

## Openings at 15° Angle

Drop forged of Bonaloy Steel, this line of open end wrenches has through the years become the standard of comparison for other wrenches of similar type. Heads are thin and pear-shaped providing more turning room. Openings are precision-milled, providing a firm, accurate fit to the nut or bolt head without any possibility of slippage.

Long, thin handles with rounded edges provide maximum leverage and the balance found in all fine tools.

Heat-treated their entire length, they are heavily chrome-plated and have polished heads. Any mechanic will be proud to have an assortment of Bonaloy Open End Wrenches in his kit.



No.	Opening	Length	Head Thickness	Regular Series		Heavy Series	Light Series	Cap Screw	Set Screw
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size		
1020	1/4 & 5/16	3	5/32						1/4 & 5/16
1721	5/16 & 3/8	3 3/4	3/16	1/4					5/16 & 3/8
1723	3/8 & 7/16	4 1/8	7/32	1/4	1/4		1/4	1/4	3/8 & 7/16
1723A	3/8 & 1/2	4 1/2	7/32	1/4 & 5/16		1/4	5/16	5/16	3/8 & 1/2
1725	7/16 & 1/2	5 5/8	15/64	5/16	1/4	1/4	1/4 & 9/16	1/4 & 9/16	7/16 & 1/2
1725A	7/16 & 9/16	5 5/8	15/64	3/8	1/4 & 5/16		1/4 & 3/8	1/4 & 3/8	7/16 & 9/16
1725B	1/2 & 9/16	6 1/8	1/4	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8	1/2 & 9/16
1025	1/2 & 19/32	6 1/8	1/4	5/16		1/4 & 5/16	5/16	5/16	1/2
1727	9/16 & 3/8	6 5/8	1/4	3/8 & 7/16	5/16 & 3/8		3/8 & 7/16	3/8 & 7/16	9/16 & 5/8
1027C	9/16 & 11/16	7 1/4	9/32	3/8	5/16	3/8	3/8	3/8	9/16
1027	19/32 & 11/16	7 1/4	9/32			5/16 & 3/8			
1027A	5/8 & 11/16	7 1/4	9/32	7/16	3/8	3/8	7/16	7/16	5/8
1729	5/8 & 3/4	7 1/2	5/16	7/16 & 1/2	3/8 & 7/16		7/16 & 1/2	7/16 & 1/2	5/8 & 3/4
1028S	5/8 & 25/32	7 1/2	5/16	7/16	3/8	7/16	7/16	7/16	5/8
1029	11/16 & 25/32	8 1/4	5/16			3/8 & 7/16			
1731	3/4 & 13/16	9 1/4	13/32	1/2	7/16 & 1/2		1/2	1/2 & 9/16	3/4
1731A	3/4 & 7/8	9 1/4	13/32	1/2 & 9/16	7/16 & 9/16	1/2	1/2 & 9/16	1/2 & 3/8	3/4 & 7/8
1031	25/32 & 7/8	9 1/4	13/32	9/16	9/16	7/16 & 1/2	9/16	5/8	7/8
1731B	13/16 & 7/8	9 1/4	13/32	9/16	1/2 & 9/16	1/2	9/16	9/16 & 5/8	7/8
1033A	7/8 & 15/16	10	7/16	9/16 & 5/8	9/16	1/2 & 9/16	9/16 & 5/8	5/8	7/8
1733	7/8 & 1	10	7/16	9/16	9/16 & 5/8	1/2	9/16	5/8 & 3/4	7/8 & 1
1033C	15/16 & 1	10 1/2	15/32	5/8	5/8	9/16	5/8	3/4	1
1034	7/8 & 1 1/16	10 1/2	15/32	9/16	9/16	1/2 & 5/8	9/16 & 3/4	5/8	7/8
1034A	15/16 & 1 1/16	10 1/2	15/32	5/8		9/16 & 5/8	5/8 & 3/4		
1735	1 & 1 1/8	12	17/32	3/4	5/8 & 3/4			3/4 & 7/8	1 & 1 1/8
1037	1 1/16 & 1 1/4	12	17/32			5/8 & 3/4	3/4 & 7/8		1 1/4
1737	1 1/8 & 1 1/4	12	17/32	3/4	3/4	3/4	3/4	7/8	1 1/8 & 1 1/4
1037A	1 1/8 & 1 5/16	12	17/32	3/4 & 7/8	3/4 & 7/8			7/8 & 1	1 1/8
1739	1 1/4 & 1 3/8	14	9/16			3/4	7/8		1 1/4 & 1 3/8
1039	1 1/4 & 1 7/16	14	9/16			3/4 & 7/8	7/8 & 1		1 1/4
1039A	1 5/16 & 1 1/2	14	9/16	7/8 & 1	7/8 & 1		1 & 1 1/8		1 1/2
1040	1 1/4 & 1 5/8	14	9/16			3/4 & 1	7/8 & 1 1/8		1 1/4
1041	1 7/16 & 1 5/8	16	3/4			7/8 & 1	1 & 1 1/8		

# Bonaloy Open End Wrench Sets



## No. 24 Set • 6 Pieces

The No. 24 Set of Bonaloy Open End Wrenches includes all of the standard openings from  $\frac{3}{8}$ " to  $1\frac{1}{16}$ ". It contains one each of the following:

No.	Opening	No.	Opening
1723	$\frac{3}{8}$ & $\frac{7}{16}$	1028S	$\frac{5}{8}$ & $2\frac{5}{32}$
1725B	$\frac{1}{2}$ & $\frac{9}{16}$	1731	$\frac{3}{4}$ & $1\frac{1}{16}$
1027	$1\frac{1}{32}$ & $1\frac{1}{16}$	1033A	$\frac{7}{8}$ & $1\frac{5}{16}$

Available in leatherette roll or cardboard box.

## No. 25 Set • 6 Pieces

The No. 25 Set of Bonaloy Open End Wrenches covers the most popular openings from  $\frac{3}{8}$ " to 1". One each of the following are included:

No.	Opening	No.	Opening
1723	$\frac{3}{8}$ & $\frac{7}{16}$	1028S	$\frac{5}{8}$ & $2\frac{5}{32}$
1025	$\frac{1}{2}$ & $1\frac{1}{32}$	1731A	$\frac{3}{4}$ & $\frac{7}{8}$
1027C	$\frac{9}{16}$ & $1\frac{1}{16}$	1033C	$1\frac{5}{16}$ & 1

Supplied in leatherette roll or cardboard box.

## No. 27 Set • 6 Pieces

The No. 27 Set of Bonaloy Open End Wrenches has been assembled to meet the huge demand of the farm trade and farm implement dealers for a popular priced set of wrenches to take care of adjustments to the most popular sizes of nuts and bolts found on tractors and other farm equipment.

No.	Opening	No.	Opening
1721	$\frac{5}{16}$ & $\frac{3}{8}$	1729	$\frac{5}{8}$ & $\frac{3}{4}$
1725	$\frac{7}{16}$ & $\frac{1}{2}$	1731B	$\frac{13}{16}$ & $\frac{7}{8}$
1027C	$\frac{9}{16}$ & $1\frac{1}{16}$	1033C	$1\frac{5}{16}$ & 1

Packed in leatherette roll or cardboard box.

## No. 12 Set • 5 Pieces

The No. 12 Set is composed of five open end wrenches with the most popular openings from  $\frac{3}{8}$ " to  $1\frac{1}{16}$ ". The set is packed in a cardboard box and contains one each of the following:

No.	Description
1723	$\frac{3}{8}$ & $\frac{7}{16}$
1725B	$\frac{1}{2}$ & $\frac{9}{16}$
1027A	$\frac{5}{8}$ & $1\frac{1}{16}$
1731	$\frac{3}{4}$ & $1\frac{1}{16}$
1033A	$\frac{7}{8}$ & $1\frac{5}{16}$

# Bonaloy Combination Wrenches

## TuType

Same size openings both ends.

The advantages of Bonaloy Combination Wrenches which provide an open end and box wrench each with the same size opening, in the same tool are readily apparent to the experienced mechanic. They permit using the type of opening most applicable to the job at hand without changing wrenches.

They are available with a wide range of openings and are adaptable for work on carburetors, generators, manifolds, clutches, starters, as well as general service work on trucks, tractors, buses, and all types of farm, industrial, oil drilling and refinery equipment.

Drop forged of Bonaloy Steel, carefully heat-treated and heavily chrome-plated with polished heads. Handles are long, thin and oval-shaped, providing a firm comfortable grip and maximum leverage. The box end has double hexagon opening with head set at 15° to give proper clearance. The open end is angled at 15° for efficiency.

No.	Opening	Length	Regular Series		Heavy Series	Light Series	Cap Screw	Set Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size		
1159	5/16	4 3/4						5/16
1160	3/8	5	1/4					3/8
1161	7/16	5 3/8		1/4		1/4	1/4	7/16
1162	1/2	6	5/16		1/4	5/16	5/16	1/2
1163	9/16	6 3/4	3/8	5/16		3/8	3/8	9/16
1164	5/8	7 3/4	7/16	3/8		7/16	7/16	5/8
1165	11/16	8 3/8			3/8			
1166	3/4	9 1/2	1/2	7/16		1/2	1/2	3/4
1167A	13/16	11		1/2			9/16	
1167	7/8	11	9/16	9/16	1/2	9/16	3/8	7/8
1168	15/16	13	5/8		9/16	5/8		
1170	1	13		5/8			3/4	1
1171	1 1/16	15			5/8	3/4		
1172	1 1/8	15	3/4	3/4			3/8	1 1/8
1173	1 1/4	18			3/4	7/8		1 1/4
1174	1 5/16	18	7/8	7/8			1	
1176	1 7/16	21			7/8	1		

### No. 49 Set • 5 Pieces

The No. 49 Set of Bonaloy Combination Wrenches contains the most popular openings from 7/16" to 1 1/16". The set is made up of one each of the following:



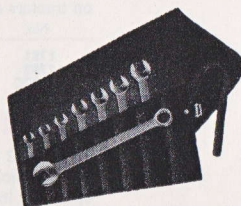
No.	Opening
1161	7/16"
1162	1/2"
1163	9/16"
1164	5/8"
1165	1 1/16"

Packed in a leatherette roll or cardboard box.

### No. 42 Set • 8 Pieces

The No. 42 Set of Bonaloy Combination Wrenches includes the most popular openings from 3/8" to 3/8". It contains the following:

No.	Opening
1160	3/8"
1161	7/16"
1162	1/2"
1163	9/16"
1164	5/8"
1165	1 1/16"
1166	3/4"
1167	7/8"



Available in leatherette roll or cardboard box.

# Bonaloy Box Wrenches

## Long Type

One End Offset

Double Hexagon Openings

Same size openings both ends.

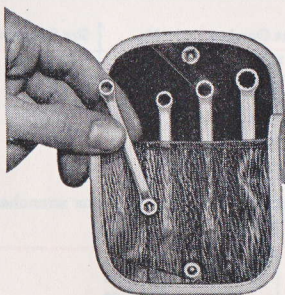
This series of Bonney Box Wrenches has only one end offset and has the same size double hexagon opening in each end of the wrench.

They are drop-forged of Bonaloy Steel, carefully heat-treated, chrome plated, with polished heads. Handles are panelled, affording a firm, comfortable grip. Box walls are thin. Consequently they are light in weight and suitable for work in the "hard-to-get-at" places.

No.	Opening	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
2814	$\frac{7}{16}$	8		$\frac{1}{4}$		$\frac{1}{4}$	$\frac{1}{4}$
2816	$\frac{1}{2}$	9	$\frac{5}{16}$		$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$
2818	$\frac{9}{16}$	9 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{16}$		$\frac{3}{8}$	$\frac{3}{8}$
2820	$\frac{5}{8}$	10	$\frac{7}{16}$	$\frac{3}{8}$		$\frac{7}{16}$	$\frac{7}{16}$
2822	1 $\frac{1}{16}$	11			$\frac{3}{8}$		
2824	$\frac{3}{4}$	11 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{16}$		$\frac{1}{2}$	$\frac{1}{2}$

## No. 31 Set • 6 Pieces

... is an assortment of one each of the above wrenches. Can be had in handy leatherette roll or strong, cardboard box.



No. 21 Set

## Bonaloy Box Wrenches

### Extra Small

### Double Offset Type

Bonaloy Extra-Small Box Wrenches are ideal for generator, carburetor, starter, electrical and ignition work where parts are small and space in which to work is limited. They are drop forged of Bonaloy Steel, heat-treated and chrome plated with polished heads.

## No. 21 Set • 4 Pieces

Contains one of each of the following:

No.	Size Opening	Length
E40	$\frac{3}{16}$ " & $\frac{13}{64}$ " Hexagon	2 $\frac{1}{8}$
E42	$\frac{7}{32}$ " & $\frac{15}{64}$ " Hexagon	3 $\frac{1}{8}$
E44	$\frac{1}{4}$ " & $\frac{9}{32}$ " Double Hexagon	3 $\frac{3}{8}$
E46	$\frac{5}{16}$ " & $\frac{11}{32}$ " Double Hexagon	3 $\frac{3}{4}$

Packed in Leatherette Roll or Cardboard Box.



# Bonaloy Box Wrenches

## Double Offset Type

## Double Hexagon Openings

Bonney Box Wrenches, drop-forged of Bonaloy Steel, are thin, long and light in weight. Different size double hexagon openings are broached in each end of the wrench. Box walls are thin but still have the exceptional strength of all Bonney Wrenches. Handles are oval, permitting a firm, comfortable grip. All wrenches are chrome plated, with heads buffed to a high, permanent lustre.

Short  
Type

Long  
Type

No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
2803	5/16 & 3/8	4 1/2	1/4				
2804	3/8 & 7/16	4 3/4	1/4	1/4		1/4	1/4
2805A	7/16 & 1/2	5 1/8	5/16	1/4	1/4	1/4 & 5/16	1/4 & 5/16
2805	1/2 & 9/16	5 3/8	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8
2806	9/16 & 5/8	5 3/4	3/8 & 7/16	5/16 & 3/8		3/8 & 7/16	3/8 & 7/16
2806C	5/8 & 11/16	6	7/16	3/8	3/8	7/16	7/16

No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
2804L	3/8 & 7/16	8 1/2	1/4	1/4		1/4	1/4
2804C	7/16 & 1/2	8 3/4	5/16	1/4	1/4	1/4 & 5/16	1/4 & 5/16
2805L	1/2 & 9/16	9	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8
2806L	9/16 & 5/8	9 1/2	3/8 & 7/16	5/16 & 3/8		3/8 & 7/16	3/8 & 7/16
2807A	5/8 & 11/16	11	7/16	3/8	3/8	7/16	7/16
2807	3/8 & 3/4	11	7/16 & 1/2	3/8 & 7/16		7/16 & 1/2	7/16 & 1/2
2808B	11/16 & 25/32	11 1/2			3/8 & 7/16		
2808F	3/4 & 13/16	11 1/2	1/2	7/16 & 1/2		1/2	1/2 & 9/16
2808	3/4 & 7/8	11 1/2	1/2 & 9/16	7/16 & 9/16	1/2	9/16	1/2 & 3/8
2809A	25/32 & 3/8	12 1/2	9/16	5/16	7/16 & 1/2	5/16	5/16
2809C	13/16 & 3/8	12 1/2	9/16	5/16 & 9/16	1/2	5/16	5/16 & 3/8
2809	7/8 & 15/16	12 1/2	9/16 & 5/8	5/16	1/2 & 9/16	5/16 & 3/8	5/16 & 3/8
2810C	7/8 & 1	13 1/2	9/16	5/16 & 3/8	1/2	3/8	3/8 & 3/4
2810	15/16 & 1	13 1/2	5/8	9/16	9/16 & 5/8	3/8	3/4
2811E	15/16 & 1 1/16	14 1/2	5/8	9/16	9/16 & 5/8	3/8 & 3/4	3/8
2811B	15/16 & 1 1/16	14 1/2	5/8		9/16 & 5/8	3/8 & 3/4	
2811A	1 & 1 1/16	14 1/2		3/8	3/8	3/4	3/4
2811	1 & 1 1/8	14 1/2	3/4	3/8 & 3/4		3/4 & 7/8	3/4 & 7/8
2812B	1 1/16 & 1 1/4	16 1/2			3/8 & 3/4	3/4 & 7/8	
2812C	1 1/8 & 1 1/4	16 1/2	3/4	3/4		3/8	7/8
2812	1 1/4 & 1 3/8	18			3/4	3/8	
2812A	1 1/4 & 1 7/16	20			3/4 & 7/8	3/8 & 1	
2813	1 1/8 & 1 3/8	23			3/8 & 1	1 & 1 1/8	
2815	1 13/16 & 2	24			1 1/8 & 1 1/4	1 1/4 & 1 3/8	
2815B	1 7/8 & 2	24	1 1/4	1 1/4		1 3/8	
2815A	2 & 2 3/16	26			1 1/2 & 1 1/2	1 3/8	
2819	2 3/16 & 2 3/8	26			1 3/8 & 1 1/2	1 1/2	
2821	2 9/16 & 2 3/4	28			1 5/8 & 1 3/4		

## No. 44 Set • 5 Pieces

The No. 44 Set is composed of five long type double offset box wrenches with the most popular openings from 3/8" to 1 15/16". The set is packed in a cardboard box and contains one each of the following:

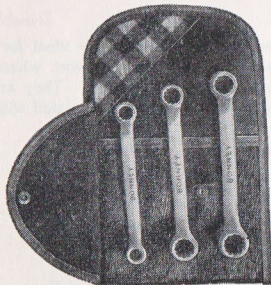
No.	Size Openings	No.	Size Openings
2804L	3/8 & 7/16	2808F	3/4 & 13/16
2805L	1/2 & 9/16	2809	7/8 & 15/16
2807A	5/8 & 1 1/16		

## No. 29A Set • 3 Pieces

Contains three short type double offset box wrenches:

No.	Size Openings
2804	3/8 & 7/16
2805	1/2 & 9/16
2806C	5/8 & 1 1/16

Packed in a Leatherette Roll or Cardboard Box.



# Bonaloy Box Wrenches

## 15° Angle Type

Bonaloy 15° Angle Box Wrenches are designed for work in locations with low overhead clearance. Either side of the head may be applied.

Drop forged of Bonaloy Steel and carefully heat-treated, they have long, thin, oval-shaped handles which provide a firm, comfortable grip. Box walls are thin. Double hexagon openings are accurately and cleanly pull-broached. They are finished in rust-resisting chrome plate with polished heads.

No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
2885	5/16 & 3/8	4	1/4				
2886	3/8 & 7/16	4 1/2	1/4	1/4		1/4	1/4
2887	7/16 & 1/2	5	5/16	1/4	1/4	1/4 & 5/16	1/4 & 5/16
2888	1/2 & 9/16	5 1/2	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8
2889	9/16 & 5/8	6	3/8 & 7/16	5/16 & 3/8		3/8 & 7/16	3/8 & 7/16

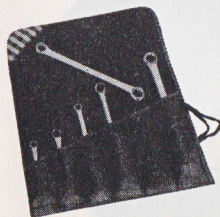
No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
2890	3/8 & 7/16	7 5/8	1/4	1/4		1/4	1/4
2890C	7/16 & 1/2	7 3/4	5/16	1/4	1/4	1/4 & 5/16	1/4 & 5/16
2891	1/2 & 9/16	8 5/8	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8
2891A	1/2 & 19/32	8 5/8	5/16		1/4 & 5/16	5/16	5/16
2891C	9/16 & 5/8	9 1/4	3/8 & 7/16	5/16 & 3/8	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16
2892	5/8 & 11/16	9 5/8	7/16	3/8	3/8	7/16	7/16
2892C	19/32 & 11/16	9 5/8			5/16 & 3/8		
2892B	5/8 & 3/4	9 5/8	7/16 & 1/2	3/8 & 7/16		7/16 & 1/2	7/16 & 1/2
2893A	11/16 & 25/32	11			3/8 & 7/16		
2893	3/4 & 13/16	11	1/2	7/16 & 1/2		1/2	1/2 & 9/16
2893B	3/4 & 7/8	11	1/2 & 9/16	7/16 & 9/16	1/2	1/2 & 9/16	1/2 & 9/16
2894C	13/16 & 7/8	12 1/4	9/16	1/2 & 9/16	1/2	9/16	9/16 & 5/8
2894	7/8 & 15/16	13 1/4	9/16 & 5/8	9/16	1/2 & 9/16	9/16 & 5/8	5/8
2894A	7/8 & 1	13 1/4	9/16	9/16 & 5/8	1/2	9/16	3/8 & 3/4
2894B	15/16 & 1	13 1/4	5/8	3/8	9/16	3/8	3/4
2895B	15/16 & 1 1/16	15 1/2	5/8		9/16 & 3/8	3/8 & 3/4	
2895C	1 & 1 1/8	15 1/2	3/4	3/8 & 3/4			3/4 & 7/8
2895E	1 1/16 & 1 1/4	15 3/4			5/8 & 3/4	3/4 & 7/8	
2895H	1 1/8 & 1 5/16	15 3/4	3/4 & 7/8	3/4 & 7/8			7/8 & 1
2896	1 1/8 & 1 3/8	16	3/4	3/4			7/8
2897	1 1/4 & 1 7/16	18			3/4 & 7/8	7/8 & 1	
2898	1 5/16 & 1 1/2	19	7/8 & 1	7/8 & 1			1 & 1 1/8
2898A	1 7/16 & 1 5/8	19			7/8 & 1	1 & 1 1/8	



Short Type



Long Type



## No. 36 Set • 6 Pieces

Contains two short type and four long type 15° angle box wrenches:

No.	Openings	Type
2886	3/8 & 7/16	Short
2888	1/2 & 9/16	Short
2890	3/8 & 7/16	Long
2891	1/2 & 9/16	Long
2892	5/8 & 11/16	Long
2893	3/4 & 13/16	Long

Packed in Leatherette Roll or Card-board box.

## No. 39A Set • 6 Pieces

Contains six long type 15° angle box wrenches:

No.	Openings	Type
2890	3/8 & 7/16	Long
2891	1/2 & 9/16	Long
2892	5/8 & 11/16	Long
2893	3/4 & 13/16	Long
2894	7/8 & 15/16	Long
2895C	1 & 1 1/8	Long

Available only in cardboard box.

## Bonaloy Tappet Wrenches

### 420 Series

Designed especially for tappet adjusting, every wrench in this line has a different size opening in each end. Openings are precision-milled at a 15° angle. They are drop forged of Bonaloy Steel and carefully heat-treated. Exceptionally long and thin, they have "pear-shaped" heads. Finished in brilliant chrome plate with polished heads.

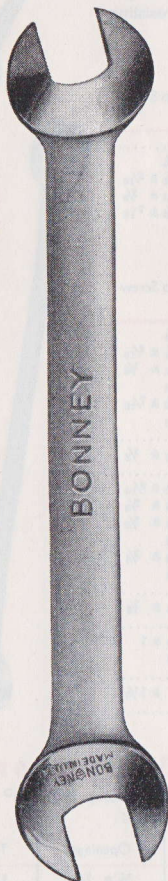
No.	Size Openings	Length	Thickness of Heads
420A	$\frac{7}{16}$ & $\frac{1}{2}$	8	$\frac{5}{32}$
420	$\frac{7}{16}$ & $\frac{17}{32}$	8	$\frac{5}{32}$
422	$\frac{1}{2}$ & $\frac{9}{16}$	8	$\frac{5}{32}$
424B	$\frac{9}{16}$ & $\frac{5}{8}$	$8\frac{1}{2}$	$\frac{3}{16}$
424	$\frac{5}{8}$ & $\frac{11}{16}$	$8\frac{1}{2}$	$\frac{3}{16}$
424A	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{3}{16}$
425A	$\frac{11}{16}$ & $\frac{3}{4}$	9	$\frac{7}{32}$
425	$\frac{3}{4}$ & $\frac{13}{16}$	9	$\frac{7}{32}$
426	$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{7}{32}$
426A	$\frac{13}{16}$ & $\frac{7}{8}$	9	$\frac{7}{32}$
428	$\frac{15}{16}$ & 1	$9\frac{1}{2}$	$\frac{7}{32}$

### No. 22 Set • 6 Pieces

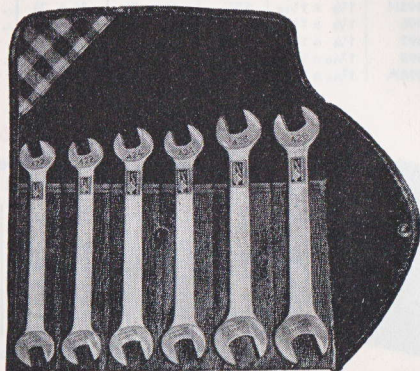
The No. 22 Tappet Wrench Set is designed to cover almost every make and model of passenger car and truck. Contains two each of the following:

No.	Size Openings
422	$\frac{1}{2}$ & $\frac{9}{16}$
424	$\frac{5}{8}$ & $\frac{11}{16}$
426	$\frac{3}{4}$ & $\frac{7}{8}$

Furnished in either leatherette roll or cardboard box.



No. 420 Series



# Bonaloy Tappet Wrenches

## 401 Series

Bonaloy Tappet Wrenches of the 401 Series are of the proper length (eight inches), therefore allow the mechanic to work clear of the motor when it is hot. The angle of the heads also allows him to reach around into normally inaccessible locations.

Some cars require three wrenches to make complete tappet adjustments. Consequently, the 401 Series Tappet Wrenches are designed so that two may be worked like scissors with one hand while the third is used in the other hand. Both openings in this series are of the same size but are at different angles. One opening is straight, the other at  $22\frac{1}{2}^\circ$ .

Wrench No.	Openings Milled	Length	Thickness of Head
401A	$\frac{7}{16}$	8	$\frac{5}{32}$
402	$\frac{1}{2}$	8	$\frac{5}{32}$
403	$\frac{9}{16}$	8	$\frac{5}{32}$
404	$\frac{3}{8}$	8	$\frac{3}{16}$
405	$1\frac{1}{16}$	8	$\frac{3}{16}$

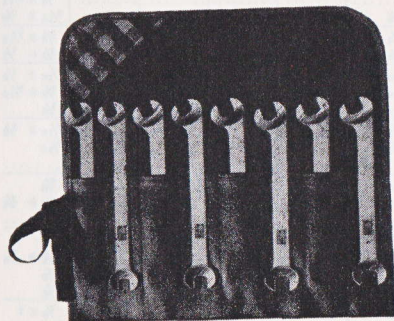
## No. 412 Tappet Wrench Set - 8 Pieces

The No. 412 Tappet Wrench Set will handle the tappet adjustments on a large number of makes of cars and trucks. It contains two each of four sizes of the No. 401 series as follows:

Nos. 402      403      404      405

with openings as shown in the table above.

Available in leatherette roll or cardboard box.

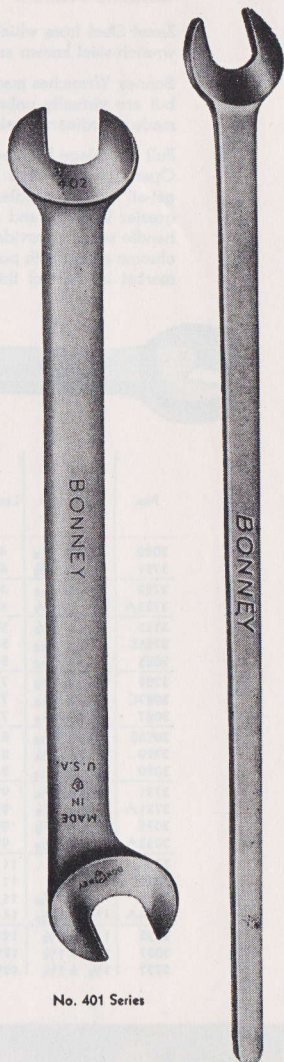


## L402 Series Tappet Wrenches

### Extra Long

These extra-long, thin, tappet wrenches are specially suited for tappet adjustments on late model cars where it is necessary to make adjustments from underneath the car. Heads are extremely thin, with openings at  $22\frac{1}{2}^\circ$ . Made of Bonaloy Steel, chrome plated, with polished heads.

Wrench No.	Opening Milled	Length	Thickness of Head
L401A	$\frac{7}{16}$	15	$\frac{3}{16}$
L402	$\frac{1}{2}$	15	$\frac{3}{16}$
L403	$\frac{9}{16}$	15	$\frac{3}{16}$
L404	$\frac{3}{8}$	15	$\frac{3}{16}$



No. 401 Series

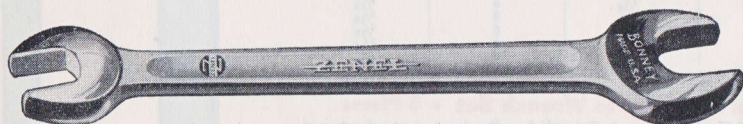
No. L402 Series

# ZENEL Open End Wrenches

Zenel Steel from which these open end wrenches are made is the strongest toughest wrench steel known and is found only in wrenches manufactured by Bonney.

Bonney Wrenches made of Zenel Steel, not only wear well under the most severe use, but are virtually unbreakable. In fact, they actually outlast two or three wrenches made of ordinary steels.

Full advantage has been taken of the properties found in this steel. As a result Zenel Open End Wrenches have narrower heads, permitting their use in work in "hard-to-get-at" places; handles are longer and thinner than on ordinary wrenches, providing greater leverage and reducing the weight of the wrenches themselves. The concave handle section provides a firm, comfortable grip. Drop forged, heat-treated and fully chrome plated with polished heads Zenel Open End Wrenches are the best buy on the market in tools of this type.



No.	Openings	Length	Head Thickness	Regular Series		Heavy Series	Light Series	Cap Screw	Set Screw
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size		
3020	$\frac{1}{4}$ & $\frac{5}{16}$	4 $\frac{1}{4}$	$\frac{3}{16}$	.....	.....	.....	.....	.....	$\frac{1}{4}$ & $\frac{5}{16}$
3721	$\frac{5}{16}$ & $\frac{3}{8}$	4 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{4}$	.....	.....	.....	.....	$\frac{5}{16}$ & $\frac{3}{8}$
3723	$\frac{3}{8}$ & $\frac{7}{16}$	4 $\frac{3}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	.....	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$
3723A	$\frac{3}{8}$ & $\frac{1}{2}$	4 $\frac{3}{4}$	$\frac{7}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$
3725	$\frac{7}{16}$ & $\frac{1}{2}$	5 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$
3725B	$\frac{1}{2}$ & $\frac{9}{16}$	5 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$
3025	$\frac{1}{2}$ & $\frac{19}{32}$	5 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	.....	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$
3727	$\frac{9}{16}$ & $\frac{5}{8}$	7	$\frac{9}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$
3027C	$\frac{9}{16}$ & $\frac{11}{16}$	7	$\frac{9}{32}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$
3027	$\frac{19}{32}$ & $\frac{11}{16}$	7	$\frac{9}{32}$	.....	.....	$\frac{5}{16}$ & $\frac{3}{8}$	.....	.....	.....
3028S	$\frac{5}{8}$ & $\frac{25}{32}$	8	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}$
3729	$\frac{7}{8}$ & $\frac{7}{4}$	8	$\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$
3029	$\frac{11}{16}$ & $\frac{25}{32}$	8	$\frac{5}{16}$	.....	.....	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	.....
3731	$\frac{3}{4}$ & $\frac{13}{16}$	9 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	.....	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$
3731A	$\frac{3}{4}$ & $\frac{7}{8}$	9 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{3}{4}$ & $\frac{7}{8}$
3031	$\frac{25}{32}$ & $\frac{7}{8}$	9 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{7}{8}$
3033A	$\frac{7}{8}$ & $\frac{15}{16}$	9 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{8}$	$\frac{7}{8}$
3733	$\frac{7}{8}$ & 1	11	$\frac{15}{32}$	$\frac{9}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{3}{8}$ & $\frac{3}{4}$	$\frac{7}{8}$ & 1
3033C	$\frac{15}{16}$ & 1	11	$\frac{15}{32}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	1
3034	$\frac{7}{8}$ & $\frac{11}{16}$	11	$\frac{15}{32}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{5}{8}$	$\frac{7}{8}$
3034A	$\frac{15}{16}$ & $\frac{11}{16}$	11	$\frac{15}{32}$	$\frac{5}{8}$	.....	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	.....	.....
3735	1 & $\frac{11}{16}$	12 $\frac{1}{2}$	$\frac{17}{32}$	$\frac{3}{4}$	$\frac{3}{4}$ & $\frac{3}{4}$	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	1 & $\frac{11}{16}$
3037	$\frac{11}{16}$ & $\frac{11}{16}$	12 $\frac{1}{2}$	$\frac{17}{32}$	.....	.....	$\frac{3}{4}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$	$\frac{11}{16}$
3737	$\frac{11}{16}$ & $\frac{11}{16}$	12 $\frac{1}{2}$	$\frac{17}{32}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{11}{16}$ & $\frac{11}{16}$

# ZENEL

## Open End Sets

### No. Z24 Set • 6 Pieces

The No. Z24 Set of Zenel Open End Wrenches includes all of the standard openings from  $\frac{3}{8}$ " to  $1\frac{5}{16}$ ". It contains one each of the following:

No.	Size Openings
3723	$\frac{3}{8}$ & $\frac{7}{16}$
3725B	$\frac{1}{2}$ & $\frac{9}{16}$
3027	$1\frac{1}{32}$ & $1\frac{1}{16}$
3028S	$\frac{5}{8}$ & $2\frac{5}{32}$
3731	$\frac{3}{4}$ & $1\frac{1}{8}$
3033A	$\frac{7}{8}$ & $1\frac{5}{16}$

Available in leatherette roll or cardboard box.

### No. Z25 Set • 6 Pieces

The No. Z25 Set of Zenel Open End Wrenches covers the most popular openings from  $\frac{3}{8}$ " to 1". One each of the following are included:

No.	Size Openings
3723	$\frac{3}{8}$ & $\frac{7}{16}$
3025	$\frac{1}{2}$ & $1\frac{1}{32}$
3027C	$\frac{9}{16}$ & $1\frac{1}{16}$
3028S	$\frac{5}{8}$ & $2\frac{5}{32}$
3731A	$\frac{3}{4}$ & $\frac{7}{8}$
3033C	$1\frac{5}{16}$ & 1

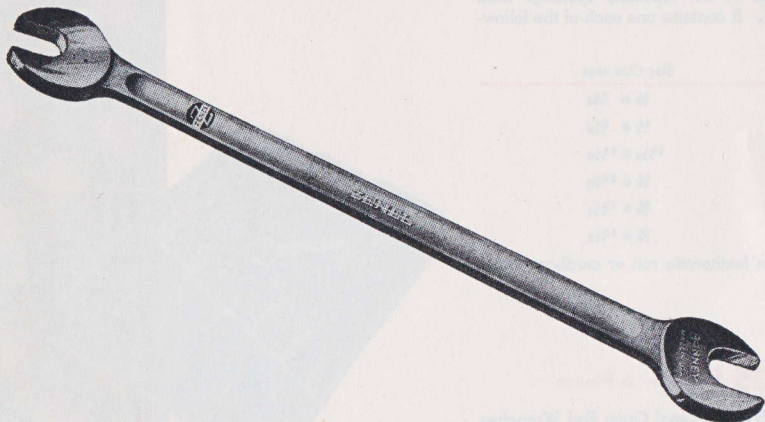
Can be supplied in leatherette roll or cardboard box.



## ZENEL Tappet Wrenches

Zenel Tappet Wrenches are made of the same steel as the Zenel Open End Wrenches described on the preceding page. Drop forged, they have concave handles which are long and thin, reducing the weight of the wrench when compared to other wrenches designed for tappet adjustments. Openings are precision-milled and angled at  $15^\circ$ , with a different size opening in each end.

Zenel Tappet Wrenches are perfectly balanced, carefully heat-treated, thoroughly tested and rigidly inspected. They are heavily chrome plated with heads buffed to a high permanent lustre.



No.	Size Openings	Length	Thickness of Heads
3420A	$\frac{7}{16}$ & $\frac{1}{2}$	8	$\frac{5}{32}$
3420	$\frac{7}{16}$ & $\frac{17}{32}$	8	$\frac{5}{32}$
3422	$\frac{1}{2}$ & $\frac{9}{16}$	8	$\frac{5}{32}$
3424B	$\frac{9}{16}$ & $\frac{5}{8}$	$8\frac{1}{2}$	$\frac{3}{16}$
3424	$\frac{5}{8}$ & $\frac{11}{16}$	$8\frac{1}{2}$	$\frac{3}{16}$
3424A	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{3}{16}$
3425	$\frac{3}{4}$ & $\frac{13}{16}$	9	$\frac{7}{32}$
3426	$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{7}{32}$
3428	$1\frac{5}{16}$ & 1	$9\frac{1}{2}$	$\frac{7}{32}$

# ZENEL Tappet Sets

## No. Z22 Set • 6 Pieces

The No. Z22 Set of Zenel Tappet Wrenches is designed to cover almost every make and model of passenger car and truck. It contains two each of the following:

No.	Size Openings
3422	$\frac{1}{2}$ & $\frac{9}{16}$
3424	$\frac{5}{8}$ & $1\frac{1}{16}$
3426	$\frac{3}{4}$ & $\frac{7}{8}$

Available in leatherette roll or cardboard box.

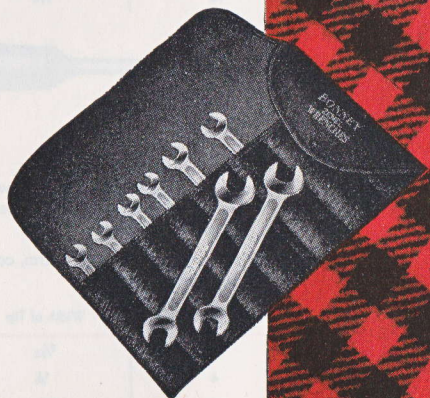


## No. Z23 Set • 8 Pieces

The No. Z23 Zenel Tappet Wrench Set will give almost complete coverage of all makes of passenger cars and trucks. It includes two each of the following:

No.	Size Openings
3420	$\frac{7}{16}$ & $1\frac{1}{32}$
3422	$\frac{1}{2}$ & $\frac{9}{16}$
3424	$\frac{5}{8}$ & $1\frac{1}{16}$
3426	$\frac{3}{4}$ & $\frac{7}{8}$

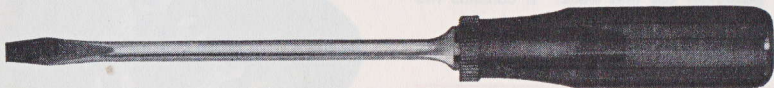
Can be supplied in leatherette roll or cardboard box.



# Bonney Screw Drivers

Bonney Screw Drivers are made with solid, forged, one-piece blades. The blades are formed with an upset shoulder against which the handles are forced (except in the electricians' pattern). Each blade is heat treated throughout its entire length and is ground and polished. They are firmly anchored in the handles to prevent turning or loosening. The tips are accurately taper ground to insure a non-slip fit in screw slots.

All composition handle screw drivers have exceedingly tough handles that are non-conductors of electricity. The handles are fluted and provide a secure, comfortable grip. Bonney Screw Drivers are not only the most durable and most practical drivers ever offered to the mechanic, but are finished in keeping with the high quality of the tool.



## Round Shank • Composition Handle

Solid, forged, one-piece blades are forced into handles against the upset shoulder to insure an absolutely tight fit. The blades are heat treated throughout their entire length. Handles are of transparent, non-conducting composition. The top portion of the shank on the Nos. 08 and 012 is hexagon to allow the use of a wrench for added leverage.

No	Length of Blade	Width of Tip	Overall Length
04	4	$\frac{1}{4}$	$7\frac{1}{4}$
06	6	$\frac{5}{16}$	$10\frac{1}{4}$
08	8	$\frac{3}{8}$	13
012	12	$\frac{7}{16}$	$17\frac{1}{2}$



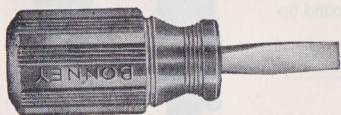
## Round Shank • Wood Handle

This line of quality, wood handle screw drivers will stand up under severe use. Blades are drop-forged from selected alloy steel and carefully heat treated their entire length. Tips are taper-ground.

The hardwood handles are fluted to provide a firm, comfortable grip and bolsters firmly anchor the blades to the handles.

No.	Length of Blade	Width of Tip	Overall Length
W03	3	$\frac{7}{32}$	$7\frac{1}{4}$
W04	4	$\frac{1}{4}$	9
W06	6	$\frac{5}{16}$	$11\frac{3}{4}$
W08	8	$\frac{3}{8}$	$14\frac{1}{2}$
W010	10	$\frac{7}{16}$	$16\frac{1}{2}$

## Bonney Screw Drivers



### Composition Handle • Adjusting

A strong, sturdy screw driver for making fine adjustments. The handle is designed to fit comfortably in the hand and to provide a firm grip. It is of transparent, non-conducting composition.

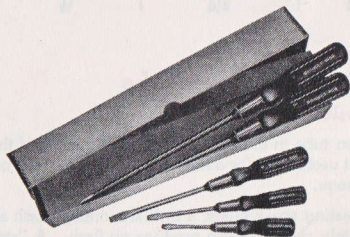
No.	Length of Blade	Width of Tip	Overall Length
S01	1 $\frac{3}{4}$	$\frac{1}{4}$	3 $\frac{3}{4}$
S02	1	$\frac{1}{4}$	2 $\frac{3}{4}$



### Composition Handle • Square Shank

Blades are forged in one piece, heat treated their full length and firmly anchored in the handles. Handles are non-conductors of electricity. The tip is not merely an extension of two of the square shank surfaces, but is forged and taper-ground.

No.	Length of Blade	Width of Tip	Overall Length
S04	4	$\frac{5}{16}$	7 $\frac{3}{4}$
S06	6	$\frac{3}{8}$	10 $\frac{1}{4}$
S08	8	$\frac{7}{16}$	12 $\frac{3}{4}$
S012	12	$\frac{1}{2}$	17 $\frac{1}{2}$



### No. W05 Screw Driver Set

This assortment contains one each of numbers W03, W04, W06, W08 and W010. It offers a remarkably complete set which meets practically every screw driver need. All of them are made to withstand long, severe use. Balance which distinguishes all fine tools is built into every Bonney Screw Driver.

# Bonney Screw Drivers

## No. 001 Pocket Size • Composition Handle

Every mechanic has need for a pocket size screw driver. The No. 001 will "fill the bill" in every way. Clip for securely holding the driver in pocket supplied with each one. The blade is forged with taper-ground tip and the handle is of transparent, non-conducting composition.

No.	Length of Blade	Width of Tip	Overall Length
001	2	$\frac{1}{8}$	4

## Electricians' • Composition Handle

This line of screw drivers has many uses in electrical work. They are of the same high quality and finish as the drivers described above. Made in three sizes.

No.	Length of Blade	Width of Tip	Overall Length
003	3	$\frac{3}{16}$	$6\frac{1}{2}$
006	6	$\frac{3}{16}$	$9\frac{1}{2}$
0010	10	$\frac{3}{16}$	$13\frac{1}{2}$



No. 001



Electricians'

## No. E02 Pocket Size With Neon Tube

### Composition Handle

For "out on the road" jobs, this screw driver is one of the handiest tools in a mechanic's kit.

It has a tough, composition handle that is a non-conductor of electricity, with a neon tube for testing spark plugs. The tip is magnetized and a wire guard slides over the tip to protect the pocket. A handy, pocket clip is also supplied. The blade is forged of special screw driver steel, heat-treated, with taper-ground tip.

No.	Length of Blade	Width of Tip	Overall Length
E02	$2\frac{1}{4}$	$\frac{1}{8}$	5



No. E02

## No. E03 With Neon Tube

### Composition Handle

The neon tube in the tough composition handle of this screw driver makes it a most useful tool for automotive and electrical work. It's made to stand hard usage.

When testing spark plugs, a brilliant, orange flash shows the plug is O.K. Completely shorted plugs produce no flash. A "stringy" flash shows the plug is partly fouled.

The blade is forged with taper-ground tip and securely anchored in the handle.

No.	Length of Blade	Width of Tip	Overall Length
E03	3	$\frac{3}{16}$	$6\frac{1}{2}$



No. E03

# Bonney Screw Drivers

## To Fit Phillips Screws

### Composition Handle Type

These fine quality screw drivers to fit Phillips screws have transparent, amber-colored composition handles that are non-conductors of electricity. Blades are drop-forged and carefully heat treated their entire length. They are securely fastened in the handles to prevent turning or loosening. The four sizes shown will take care of all sizes of Phillips screws. The top portion of the shank on the No. CP4 is hexagon to allow the use of a wrench to gain added leverage.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diameter		
CP1	3	$\frac{9}{64}$	6	No. 4 and smaller
CP2	4	$\frac{1}{4}$	$7\frac{3}{4}$	No. 5 to No. 9 inc.
CP3	6	$\frac{5}{16}$	$10\frac{1}{4}$	No. 10 to No. 16 inc.
CP4	8	$\frac{3}{8}$	11	No. 18 and larger

### No. CP Screw Driver Set

The No. CP Set will fill every requirement for screw drivers to fit Phillips screws. The garnish moulding and hinges on late model cars are fastened with Phillips screws. They are also used on truck and bus bodies. One each of numbers CP1, CP2, CP3 and CP4 are included.

### Wood Handle Short Type

For cramped quarters—in tightening windshield mouldings and on similar jobs—that cannot be reached with regulation length screw drivers, these short screw drivers will be found mighty convenient. Of quality equal to regulation length wood handle screw drivers for Phillips screws.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diameter		
SP1	1	$\frac{9}{64}$	$2\frac{7}{8}$	No. 4 and Smaller
SP2	$1\frac{3}{8}$	$\frac{1}{4}$	$3\frac{3}{8}$	No. 5 to No. 9 inc.

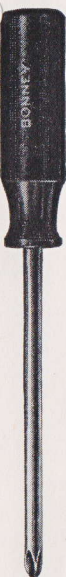
### Wood Handle Type

These screw drivers are made with the same care and precision as the regular type wood handle screw drivers described on page 58. Available in four sizes to cover the entire range of screws shown in the table.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diameter		
WP1	3	$\frac{9}{64}$	$6\frac{1}{4}$	No. 4 and smaller
WP2	4	$\frac{1}{4}$	$8\frac{3}{4}$	No. 5 to No. 9 inc.
WP3	6	$\frac{5}{16}$	11	No. 10 to No. 16 inc.
WP4	8	$\frac{3}{8}$	$14\frac{1}{2}$	No. 18 and larger

### No. WP Screw Driver Set

This set contains one each numbers WP1, WP2, WP3 and WP4 to cover the entire range of Phillips Screws.



Nos. CP1 to CP4

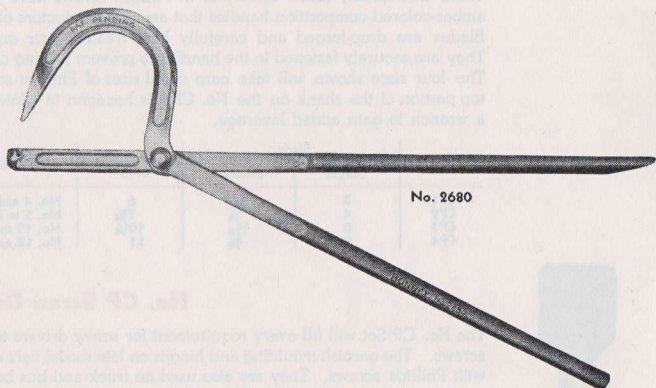


Nos. SP1 and SP2



Nos. WP1 to WP4

## Bonney Pliers



### No. 2680 Brake Spring Plier Patented

An unusually efficient brake spring plier designed especially for the removal and replacement of internal brake springs on all types and sizes of cars and trucks.

The hooked end of the plier grasps the brake spring firmly, while the "goose neck" pointed side of the plier makes firm contact with the brake lining on the shoe and prevents any possibility of slipping.

The plier can be used equally well in the removal of springs held in place by the hole in the brake shoe or by a stud attached to the brake shoe.

In replacing brake springs on brakes that have the stud fastened to the brake shoe, the notched end of the plier will be found exceptionally useful.

Figure 1 illustrates the use of the plier in removing springs from brake shoes with the hole. Figure 2 illustrates the removal of the spring from brakes with the stud, and Figure 3 illustrates the ease with which springs may be replaced on brakes with the stud.

The No. 2680 Brake Spring Plier is drop forged of Bonaloy Steel, carefully heat-treated, with full chromium plated finish. It is light in weight, weighing only 11 ounces. The 12½" length of this plier permits leverage to handle the strongest springs with ease.

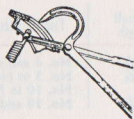


Fig. 1

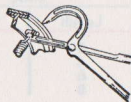
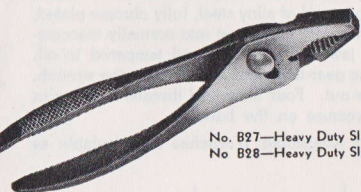


Fig. 2

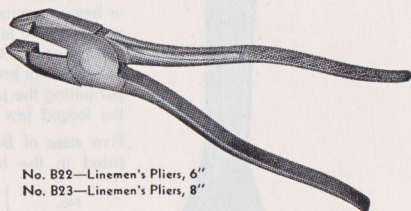


Fig. 3

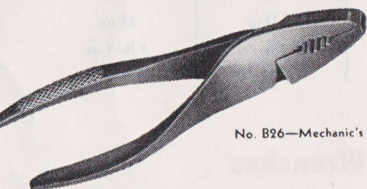
# Bonney Pliers



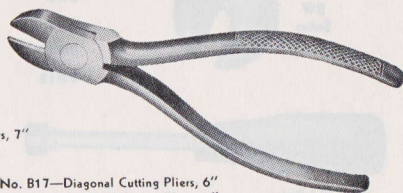
No. B27—Heavy Duty Slip Joint Pliers, 8"  
No. B28—Heavy Duty Slip Joint Pliers, 10"



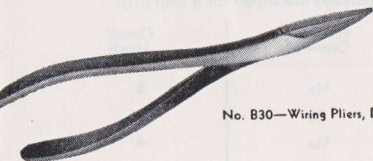
No. B22—Linemen's Pliers, 6"  
No. B23—Linemen's Pliers, 8"



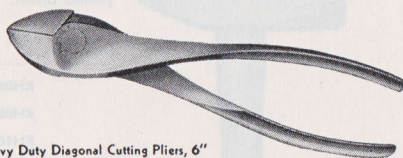
No. B26—Mechanic's Slip Joint Cutting Pliers, 7"



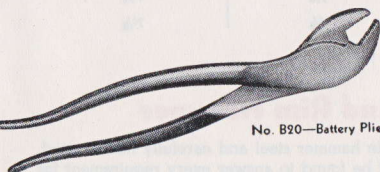
No. B17—Diagonal Cutting Pliers, 6"  
No. B19—Diagonal Cutting Pliers, 7"



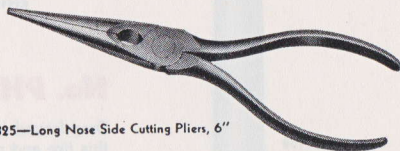
No. B30—Wiring Pliers, Duck Bill, 8"



No. B18—Heavy Duty Diagonal Cutting Pliers, 6"



No. B20—Battery Pliers, 7"



No. B25—Long Nose Side Cutting Pliers, 6"

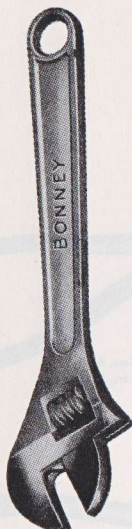
# Bonney Adjustables - Spinners - Tire Hammers

## Open End Adjustable Wrenches

Bonney Open End Adjustable Wrenches are designed to fit either square or hexagon nuts. They are drop forged of alloy steel, fully chrome plated, with polished jaws. Jaws are unusually thin to get into normally inaccessible places. Both handle and jaw are hardened and tempered in oil. They will not break or wear in the gear teeth and allow play in the wrench, permitting the jaw to slip off the nut. Four tempered threads meshing in the forged jaw permit great pressure on the handle.

Five sizes of Bonney open end Adjustable Wrenches are available as listed in the table below.

BW  
Series



No.	Size (Length)	Max. Opening	Net Weight each
BW4	4	$\frac{1}{2}$	3 oz.
BW6	6	$\frac{3}{4}$	5 oz.
BW8	8	$1\frac{1}{16}$	10 oz.
BW10	10	$1\frac{1}{8}$	1 lb. 1 oz.
BW12	12	$1\frac{7}{16}$	$1\frac{3}{4}$ lb.

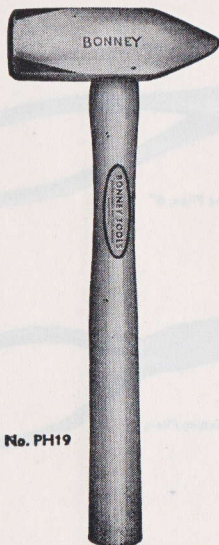


KH Series

## Spinner Wrenches

Designed especially for reaching small nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a hexagon socket on the end that grips the nut firmly. Shanks and sockets have plated finish. The hardwood handles are fluted for a firm grip.

No.	Hexagon Opening	Overall Length
KH06	$\frac{3}{16}$	6
KH08	$\frac{1}{4}$	6
KH10	$\frac{5}{16}$	6
KH11	$1\frac{1}{32}$	6
KH12	$\frac{3}{8}$	6
KH14	$\frac{7}{16}$	$7\frac{1}{8}$
KH16	$\frac{1}{2}$	$7\frac{1}{8}$



No. PH19

## No. PH19 Tire and Rim Hammer

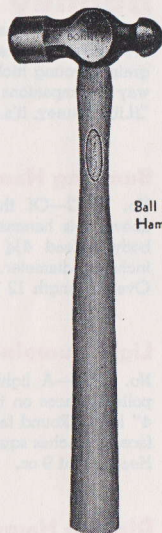
Drop-forged from a high grade hammer steel and carefully heat treated, this tire and rim hammer will be found to answer every requirement for this type tool. The head has polished finish. The handle is of the finest, straight grained, young hickory, securely fastened in the head. Head weight 3 lbs. Length overall, 16 inches.

# Bonney Hammers

## Ball Pein Hammers

The octagon-shaped heads of Bonney Ball Pein Hammers are drop-forged from special hammer steel, while the handles are made of fine, straight-grained hickory. The handles are dipped to toughen the eye end and are forced into the head and securely locked in position by two steel wedges.

No.	Head Weight	Length
PH1	2 oz.	10
PH5	½ lb.	13
PH6	¾ lb.	14
PH7	1 lb.	14½
PH9	1½ lb.	16
PH10	2 lb.	16



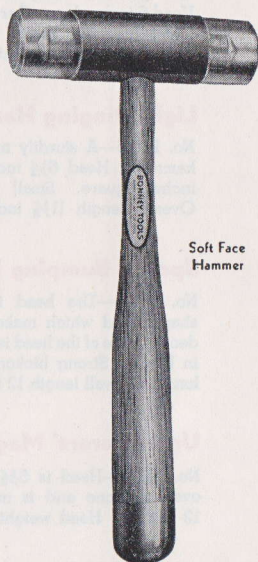
Ball Pein Hammer

## Soft Face Hammers

Bonney Soft Face Hammers have tough, amber colored cellulose tips that are replaceable. Handles are of quality hickory, shaped to afford a comfortable grip and are wedged securely in the steel center head.

These hammers are especially useful in aircraft work, in body and fender repair work, etc., for shaping and forming light sheet metals, as well as in numerous assembly jobs requiring a hammer that will not mar a finely finished surface or delicate machine parts.

No.	Type of Tips	Head Weight	Handle Length	Tip Diameter
PH18	2 Regular	¼ lb.	9	⅞
PH15	2 Regular	½ lb.	11¾	1¼
PH20	2 Regular	1 lb.	11¾	1⅜



Soft Face Hammer

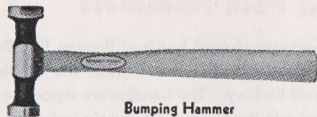
Extra tips are available for hammers listed above. Packed one dozen in a box.

# Bonney Bodyworkers' Hammers

The heads of all hammers in this line, are drop-forged from a high-grade hammer steel and are individually tempered. Handles are made from the finest grade selected, straight-grained young hickory and are securely anchored in the heads. These tools are in every way fit companions for those other tools in the Bonney Line which have gained the reputation, "if it's Bonney, it's the Best!"

## Bumping Hammer

No. PH22—Of the same construction described above, this hammer has polished faces and black body. Head  $4\frac{1}{4}$  inches long. Round face  $1\frac{1}{4}$  inches in diameter. Square face  $1\frac{1}{4}$  inches square. Overall length 12 inches.



Bumping Hammer

## Light Bumping Hammer

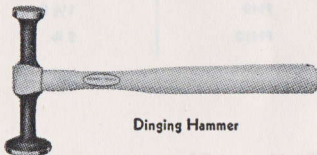
No. PH23—A light weight finishing hammer with polished faces on the head and black body. Head 4" long. Round face  $1\frac{1}{4}$  inches diameter. Square face  $1\frac{1}{8}$  inches square. Overall length  $11\frac{1}{2}$  inches. Headweight 9 oz.



Light Bumping Hammer

## Dinging Hammer

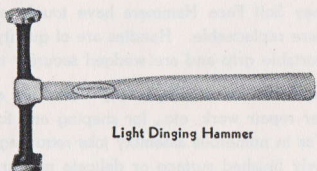
No. PH24—A finishing hammer with faces crowned and polished—body of head finished in black. Head 6 inches long. Large face  $1\frac{5}{8}$  inches diameter. Small face  $1\frac{1}{4}$  inches diameter. Overall length 12 inches. Head weight 13 oz.



Dinging Hammer

## Light Dinging Hammer

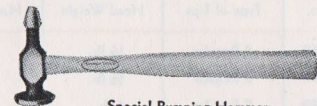
No. PH25—A sturdily made, light weight finishing hammer. Head  $6\frac{1}{2}$  inches long. Large face  $1\frac{1}{4}$  inches square. Small face  $1\frac{1}{16}$  inches diameter. Overall length  $11\frac{1}{2}$  inches. Head weight 10 oz.



Light Dinging Hammer

## Special Bumping Hammer

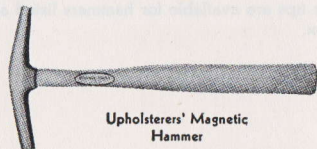
No. PH26—The head is drop-forged with bullet shaped end which makes it easy to remove small dents. Face of the head is polished with body finished in black. Strong hickory handle. Head 4 inches long. Overall length 12 inches. Head weight 7 oz.



Special Bumping Hammer

## Upholsterers' Magnetic Hammer

No. PH27—Head is  $5\frac{1}{2}$  inches long, polished all over and one end is magnetized. Overall length 12 inches. Head weight 7 oz.



Upholsterers' Magnetic Hammer

# Bonney Punches

Chisels, Punches and similar hand tools are naturally subjected to very severe service. Bonney has spared no effort to meet these conditions and to offer the best in tools of this type. All are forged of the special alloy steel which stands up best in the service to which they are put and are carefully heat treated.

Heads are comparatively soft which reduces chipping and allows them to be readily re-dressed when battered.



## Pin Punches

No.	Size Stock	Point Diameter	Length
C28	$\frac{3}{8}$	$\frac{1}{8}$	5
C29	$\frac{1}{2}$	$\frac{3}{16}$	$5\frac{5}{8}$
C30	$\frac{5}{8}$	$\frac{1}{4}$	$6\frac{3}{8}$



## Long Taper Punches

No.	Size Stock	Point Diameter	Length
C25	$\frac{3}{8}$	$\frac{5}{32}$	8
C26	$\frac{1}{2}$	$\frac{3}{16}$	9



## Solid Punches

No.	Size Stock	Point Diameter	Length
C21	$\frac{3}{8}$	$\frac{1}{16}$	$5\frac{1}{2}$
C22	$\frac{1}{2}$	$\frac{3}{32}$	$6\frac{1}{4}$
C23	$\frac{5}{8}$	$\frac{1}{8}$	7



## Prick Punch

No.	Size Stock	Length
C32	$\frac{3}{8}$	5



## Center Punch

No.	Size Stock	Length
C34	$\frac{3}{8}$	5



## Pry or Pinch Bar

No.	Size Stock	Length
C38	$\frac{5}{8}$	16

# Bonney Chisels

Chisels and similar hand tools are naturally subjected to severe service. Bonney has spared no effort to meet these conditions and to offer the best in this type of tool. All Bonney Chisels are forged of special alloy steel and carefully heat treated. Mechanics find that the bits are hard and tough enough to work on any untempered material but still sufficiently soft to be resharpened with a file. They have comparatively soft heads which will reduce chipping and allow them to be readily redressed when battered.



## Flat Chisels

No.	Size Stock	Width of Cut	Length
C1	1/4	5/16	5
C2	3/8	7/16	5 1/2
C3	1/2	3/8	6
C4	5/8	1/4	6 1/2
C5	3/4	3/8	7 1/2
C6	7/8	1	8
C7	1	1 1/4	8 1/2



## Long Flat Chisel

No.	Size Stock	Width of Cut	Length
C10	3/4	7/8	14



## Cape Chisels

No.	Size Stock	Width of Cut	Length
C12	1/2	1/4	6
C13	5/8	3/8	7



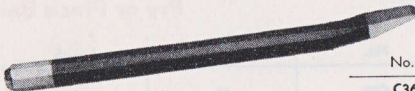
## Diamond Point Chisels

No.	Size Stock	Width of Cut	Length
C15	1/2	1/4	6
C16	5/8	3/8	7



## Round Nose Chisels

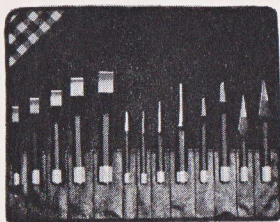
No.	Size Stock	Point Diameter	Length
C18	1/2	1/4	6
C19	5/8	3/8	7



## Rivet Buster

No.	Size Stock	Width of Cut	Length
C36	3/4	5/8	12

## Bonney C46 Punch and Chisel Set



This set offers the mechanic a compact and complete assortment of chisels and punches to entirely cover his every day requirements. Nine chisels and four punches are included as follows:

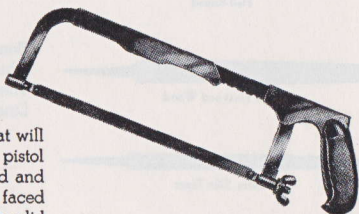
Nos. C2 Flat Chisel  
C3 Flat Chisel  
C4 Flat Chisel  
C5 Flat Chisel  
C6 Flat Chisel  
C12 Cape Chisel  
C13 Cape Chisel

Nos. C15 Diamond Point Chisel  
C16 Diamond Point Chisel  
C28 Pin Punch  
C29 Pin Punch  
C30 Pin Punch  
C34 Center Punch

## Bonney Hack Saw Frame and Blades

### Adjustable Hack Saw Frame

**No. 2628**—A sturdily built, adjustable hack saw frame that will give long and satisfactory service. The checkered steel pistol grip fits comfortably in the hand. The back is reinforced and is adjustable for from 8" to 12" blades. Blades may be faced in four directions. Has full nickel finish. Makes a splendid frame for automotive and industrial mechanics. Net weight 1½ lb.



### Flexible Hack Saw Blades

(Tungsten Alloy Steel)

Flexible Back-Hardened Teeth

The teeth in these blades are carefully milled and set for fast cutting. The blades are correctly hardened and tempered.

No.	Length	Width	Gauge	Teeth per inch	Blade Series
F1018	10	½	.025	18	Coarse
F1024	10	½	.025	24	Medium
F1032	10	½	.025	32	Fine
F1218	12	½	.025	18	Coarse
F1224	12	½	.025	24	Medium
F1232	12	½	.025	32	Fine



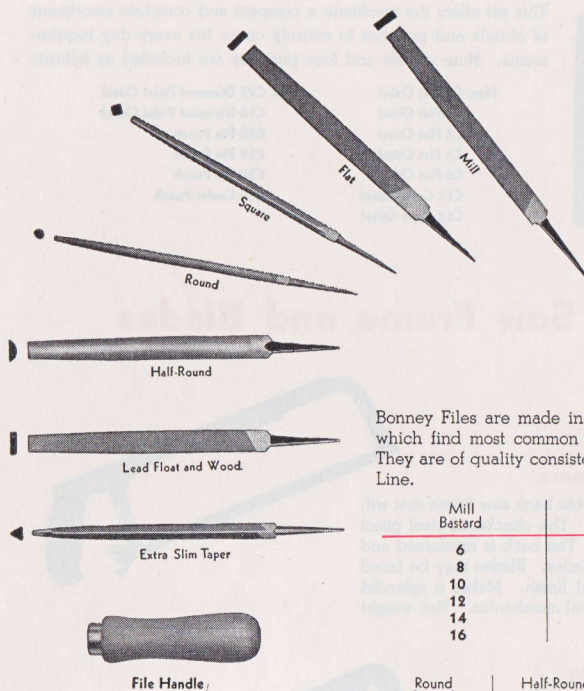
### All Hard Hack Saw Blades

(Molybdenum High Speed Steel)

Non-flexible—for difficult jobs such as cutting chrome, nickel and high carbon steel.

No.	Length	Width	Gauge	Teeth per inch	Blade Series
HS1018	10	½	.025	18	Coarse
HS1024	10	½	.025	24	Medium
HS1032	10	½	.025	32	Fine
HS1218	12	½	.025	18	Coarse
HS1224	12	½	.025	24	Medium
HS1232	12	½	.025	32	Fine





## Bonney Files

Bonney Files are made in 7 types and each type in the sizes which find most common use, as shown in the tables below. They are of quality consistent with all other tools in the Bonney Line.

Mill Bastard	Flat Bastard	Square Bastard
6	6	6
8	8	8
10	10	10
12	12	12
14	14	14
16	.....	.....

Round Bastard	Half-Round Bastard	Lead Float or Wood (Flat)	Extra-Slim Taper
.....	.....	.....	5
6	6	.....	6
8	8	.....	8
10	10	.....	.....
12	12	12	.....
14	14	14	.....

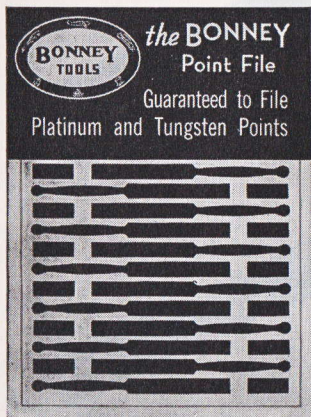
Standard Package Quantities—Files up to and including 10" in length are packed 1 dozen to the package. Files over 10" in length are packed 1/2 dozen to the package.

## File Handles

Handles are of wood—plain, without finish. They have metal ferrule which prevents splitting at the file tang opening. Made in three sizes— Small for 5" and 6" files; Medium for 8" and 10" files; Large for 12", 14" and 16" files.

## Point File

The Bonney Point File is a quality file, guaranteed to file platinum and tungsten points on all ignition systems. 5 3/8" long overall. Sold one dozen on attractive display card.



# Bonney Miscellaneous Tools

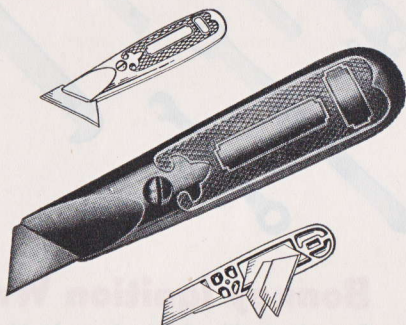
## No. 199 Shop Knife

A multi-purpose tool for the mechanic's kit. Suited for trimming upholstery, top material, rubber, leather, etc. and for cutting gaskets, shims, kickboards, cardboard etc., and for opening cartons.

When the blade is turned crosswise this knife makes an excellent scraper for removing old inspection stickers and paint from glass.

Comes equipped with five blades encased in the handle.

Length 6" overall.



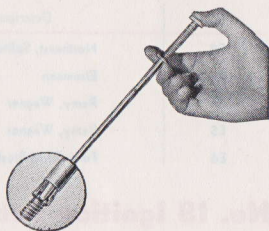
## Handy Holding Tools

These tools are ideal for screw holding, gripping, inserting, removing and picking up. They work equally well on screws, washers, nuts, bolts, taper pins, valve pins and similar objects.

The four fingers (made of spring steel) are forced outward and open when pressure is brought on the plunger. When the pressure is released the strong coil spring closes the fingers tightly around the object. It is impossible for the object to lean over or fall out.

Bonney Handy Holding Tools are used by electricians, radio service men, locksmiths, piano tuners, and in servicing typewriters, adding, calculating, linotype and similar machines, as well as by automotive mechanics.

Finished in full nickel

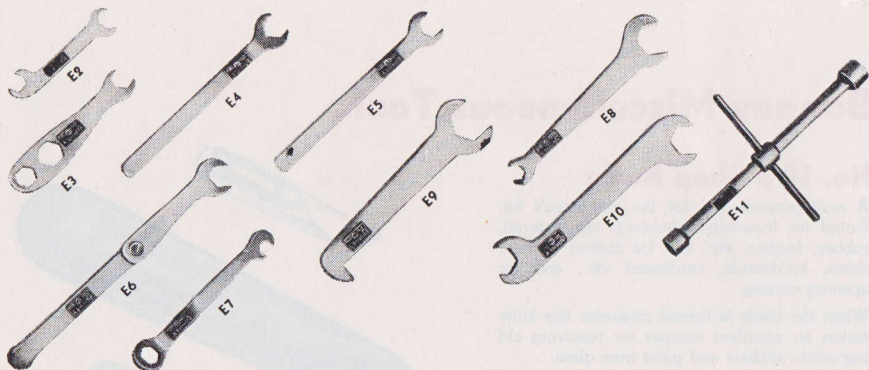


No.	Reach	Overall Length
K4	4	6 $\frac{3}{4}$
K6	6	8 $\frac{3}{4}$
K8	8	10 $\frac{3}{4}$
KF	12	14 $\frac{3}{4}$

## K-3 . Magnet

The Bonney K-3 magnet is made of Alnico, one of the most powerful magnet materials known, and is designed to be used for extracting objects from tight places. It may be used on the end of a string or wire or may be securely clamped in any of the handy holding tools illustrated above.





## Bonney Ignition Wrenches

Bonney Ignition Wrenches are designed to take care of specialized operations in the repair of starters, generators, etc. of various types, as listed in the table below. All are made of Bonaloy Steel, chrome plated. Every mechanic should include in his tool kit a complete set of these wrenches to take care of the ignition work which comes into his shop. The table below lists the various wrenches available and the ignition systems for which they are adapted.

No.	Description	No.	Description
E2	Northeast, Splitdorf, Bosch	E7	Bosch Du 4 or Du 6, Autolite
E3	Eisemann	E8	Delco-Remy
E4	Remy, Wagner	E9	Remy Cam
E5	Remy, Wagner	E10	Autolite Generator
E6	Ford, Third Brush	E11	Bosch

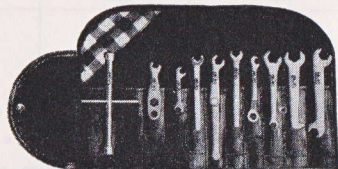
## No. 18 Ignition Set • 10 Pieces

The Bonney No. 18 Ignition Set contains ten ignition wrenches, designed for work on the most popular ignition and electrical systems, such as Autolite, Bosch, Delco, Eisemann, Northeast, Remy, Splitdorf, Westinghouse, etc.

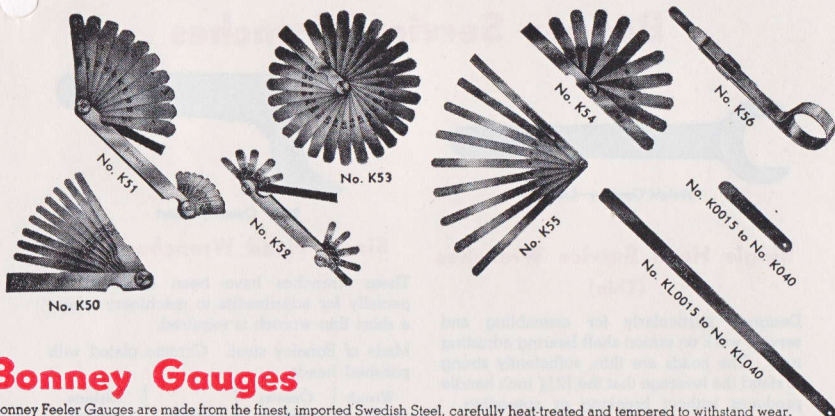
Each wrench is designed to be the most efficient for its particular application. They are light in weight and so strong that they are fully guaranteed.

Contains one each of the following:

Nos. E2	Nos. E5	Nos. E9
E3	E6	E10
E4	E7	E11
	E8	



Bonaloy Miniature Double Offset Box Wrenches (page 49), and Bonaloy Miniature Open End and Electrical Wrenches (page 45), also are handy for ignition work, repair of starters, generators, etc. Sets of these types of wrenches are illustrated on the same pages and are a very useful part of a mechanic's kit.



## Bonney Gauges

Bonney Feeler Gauges are made from the finest, imported Swedish Steel, carefully heat-treated and tempered to withstand wear. Each blade is tested to insure the exact thickness which is etched on it.

Bonney Feeler Gauges are equipped with a knurled thumb nut for instant release and selection of the blade desired. When tightened, this thumb nut securely holds the blade selected in working position, while blades not needed are securely locked in the handle.

### No. K50 Brake Adjusting Gauge

For measuring clearance between brake drum and shoe. 9 blades 4" long in the following thicknesses—.006; .008; .010; .012; .015; .018; .020; .022 and .032.

### No. K51 General Purpose Gauge

Especially for tappet and ignition work—the most popular gauge on the market. 10 blades  $1\frac{5}{8}$ " long, 10 blades  $3\frac{3}{4}$ " long and 3" point file. Short blades in following thicknesses—.012; .013; .014; .018; .020; .022; .024; .025; .028; .032. Long blades in following thicknesses—.002; .003; .004; .005; .006; .007; .008; .010; .013; .015.

### No. K52 Ignition Gauge

Contains 10 narrow blades  $1\frac{5}{8}$ " long and 3" point file for ignition, distributor points and spark plugs. Thickness of blades included as follows—.012; .013; .014; .018; .020; .022; .025; .028; .032 and .035.

### No. K53 Universal Master Gauge

Has full range of spacers—25 blades, each  $3\frac{3}{4}$ " long in following thicknesses—.0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032 and .035.

### No. K54 Standard Feeler Gauge

Contains 10 blades  $3\frac{3}{4}$ " long in following sizes—.002; .003; .004; .005; .006; .007; .008; .010; .012 and .015.

### No. K55 Extra Long Feeler Gauge

Exceptionally useful for pistons, etc. Has 8 blades, each  $8\frac{3}{4}$ " long in the following sizes—.002; .003; .004; .005; .006; .008; .010; .015.

### No. K56 Single End Feeler Gauge Stock Holder

#### POSITIVE ADJUSTABLE LOCK

Any thickness of feeler gauge stock coils within the handle and can readily be pulled out for use. Any desired length of strip stock or standard 12" blades may be used. Positive sliding lock securely holds blades. Made from hard drawn, cold rolled steel and satin nickel plated. Length  $4\frac{1}{2}$ ". Weight 1 oz.

### Extra Blades

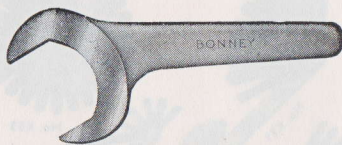
Designed to fit practically any holder, the  $3\frac{3}{4}$ " blades are available in all the popular range of thicknesses and with hole for insertion in gauges. The 12" lengths are popular for use in the No. K56 Stock Holder which makes the blades usable to the end. Both  $3\frac{3}{4}$ " and 12" blades are packed 6 in a cellophane envelope. Sizes are listed below.

$\frac{1}{2}$ " x $3\frac{3}{4}$ " Blades				$\frac{1}{2}$ " x 12" Blades			
Number	Thickness	Number	Thickness	Number	Thickness	Number	Thickness
K0015	.0015	K013	.013	KL0015	.0015	KL013	.013
K002	.002	K015	.015	KL002	.002	KL015	.015
K004	.004	K016	.016	KL004	.004	KL016	.016
K005	.005	K018	.018	KL005	.005	KL018	.018
K006	.006	K024	.024	KL006	.006	KL024	.024
K007	.007	K025	.025	KL007	.007	KL025	.025
K008	.008	K032	.032	KL008	.008	KL032	.032
K010	.010	K035	.035	KL010	.010	KL035	.035
K012	.012	K040	.040	KL012	.012	KL040	.040

# Bonney Service Wrenches



Straight Opening—Long



22 1/2° Opening—Short

## Single Head Service Wrenches (Thin)

Designed particularly for assembling and service work on pinion shaft bearing adjusting nuts. The heads are thin, sufficiently strong to stand the leverage that the 12 1/4 inch handle produces without breaking or spreading.

Wrench No.	Opening Milled	Length	Thickness Head
1932	1	12 1/4	1/4
1934	1 1/16	12 1/4	1/4
1936	1 1/8	12 1/4	1/4
1940	1 1/4	12 1/4	1/4
1944	1 3/8	12 1/4	1/4
1946	1 7/16	12 1/4	9/32
1948	1 1/2	12 1/4	9/32
1950	1 5/16	12 1/4	9/32
1952	1 5/8	12 1/4	9/32
1956	1 3/4	12 1/4	5/16
1958	1 13/16	12 1/4	5/16
1960	1 7/8	12 1/4	5/16
1964	2	12 1/4	5/16
1966	2 1/16	12 1/4	5/16
1970	2 3/16	12 1/4	5/16

## Single Head Wrenches (Thin)

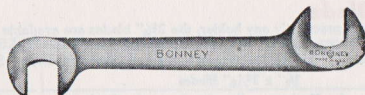
These wrenches have been designed especially for adjustments to machinery where a short thin wrench is required.

Made of Bonaloy steel. Chrome plated with polished heads.

Wrench No.	Opening Milled	Length	Thickness of Head
1224	3/4	7	1/4
1224A	1 1/8	7	1/4
1226	1 3/16	7	1/4
1228	7/8	7	1/4
1230	1 5/16	7	1/4
1232	1	7	1/4
1232A	1 1/32	7	1/4
1234	1 1/16	7	1/4
1236	1 1/8	7	1/4
1236S	1 5/16	7	1/4
1236X	1 5/16	7	7/32
1238	1 3/16	7	1/4
1240	1 1/4	7	1/4
1241	1 9/32	7	1/4
1242	1 5/16	7 3/4	9/32
1244	1 3/8	7 3/4	9/32
1246	1 7/16	7 3/4	9/32
1248	1 1/2	7 3/4	9/32
1250	1 5/16	7 3/4	9/32
1252	1 3/8	7 3/4	9/32
1256	1 3/4	8 1/2	5/16
1258	1 13/16	8 1/2	5/16
1260	1 7/8	8 1/2	5/16
1262	1 15/16	8 1/2	5/16
1264	2	8 1/2	5/16
1264S	2 9/16	8 1/2	5/16
1266	2 1/16	8 1/2	5/16
1268	2 1/8	8 1/2	5/16
1272	2 1/4	8 1/2	5/16
1276	2 3/8	8 1/2	5/16
1272S	2 1/2	8 1/2	5/16

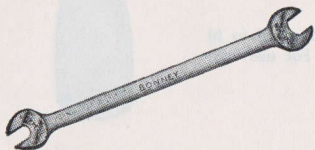
## Right-Angle Wrenches

Exceptionally useful for carburetor work on many makes of cars and trucks. Drop forged of Bonaloy Steel, fully chrome plated and with polished heads.



No.	Openings	Length	Head Thickness	Regular Series		Heavy Series	Light Series	Cap Screws	Set Screws
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size		
2723	3/8 & 7/16	4 1/2	7/32	1/4	5/16 & 3/8	1/4	1/4	1/4	3/8 & 7/16
2725B	1/2 & 9/16	5 1/2	1 5/64	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8	1/2 & 9/16
2729	5/8 & 3/4	7 1/2	5/16	7/16 & 1/2	3/8 & 7/16	1/2	7/16 & 1/2	7/16 & 1/2	1/2 & 3/4

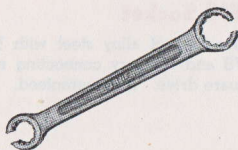
# Miscellaneous Special Wrenches



## Long Open End Wrenches

Designed especially for brake adjustments, spring clips, etc., these wrenches are drop-forged of Bonaloy Steel, fully chrome plated with polished heads.

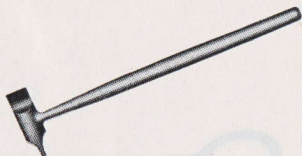
No.	Openings	Thickness of Heads	Length
1731AL	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{8}$	15
1034AL	$1\frac{1}{16}$ & $1\frac{1}{8}$	$\frac{17}{32}$	16
1735L	1 & $1\frac{1}{8}$	$\frac{17}{32}$	16



## Slotted Box Wrenches for Tube Fittings

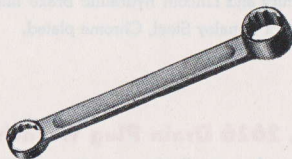
For removal and replacement of tubing flare nuts and fittings. These wrenches have slotted double hexagon openings of sizes listed in table below. Heads are offset at 15° angle. Made of Bonaloy Steel, Chrome Plated.

No.	Openings	Length
2612	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{3}{4}$
2618	$\frac{7}{16}$ & $\frac{9}{16}$	5



## No. 2589

A special tool which is unusually useful in making certain brake and steering gear adjustments. Blade is  $\frac{5}{64}$ " thick and  $\frac{1}{4}$ " in width. Overall length is 7"



## No. 6481 Battery Wrench

Designed especially for service work on battery terminals.

Has  $\frac{9}{16}$ " x  $\frac{5}{8}$ " double hexagon openings  
Length 6"

Made of Bonaloy Steel, chrome plated.

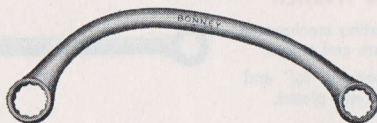
## Manifold Wrenches

Designed for manifold work on a large variety of cars.

Made of Bonaloy Steel, chrome plated,  $7\frac{3}{4}$ " long.

No. 2881— $\frac{9}{16}$ " &  $\frac{5}{8}$ " double hexagon openings.

No. 2880— $\frac{5}{8}$ " &  $\frac{3}{4}$ " double hexagon openings.



# Special Wrenches for Ford Built Cars

## No. F18 Socket

Special socket of alloy steel with  $\frac{9}{16}$ " hexagon opening to fit Ford V8 and Mercury connecting rod cap nuts. For use with  $\frac{1}{2}$ " square drive. Not guaranteed.

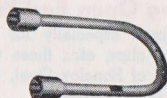


## No. 2588 Main Bearing Wrench

For holding main bearing bolts on Ford V8 while cap nuts are adjusted.

$\frac{9}{16}$ " double square openings.

Chrome Plated.



## No. 2612 Brake Wrench for Ford, Mercury and Lincoln

Slotted double hexagon openings  $\frac{3}{8}$ " and  $\frac{1}{2}$ " make this wrench suitable for removal and replacement of Ford, Mercury and Lincoln hydraulic brake line flare nuts.

Made of Bonaloy Steel, Chrome plated.



## No. 2626 Drain Plug Wrench for '39

Designed especially for removing and replacing the drain plug on 1939 Fords and Mercurys.

Has 2" double hexagon opening, head offset 20°, 10 $\frac{3}{4}$ " long. Made of Bonaloy Steel, Chrome plated.



## No. A21 Socket

For adjustments to Models "A" & "AA" Ford connecting rod bearing cap nuts.

$2\frac{1}{32}$ " double hex opening—for  $\frac{1}{2}$ " square drive. Chrome plated.



## No. D2857 Brake Wrench

Special wrench for adjusting mechanical brakes on passenger cars and trucks.

Has double square openings  $\frac{7}{16}$ " and  $\frac{1}{2}$ ", is 10 $\frac{3}{4}$ " long. Chrome plated.



# Special Wrenches for Chevrolet and Chrysler Built Cars

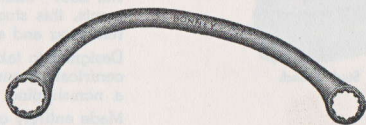
## No. 2881 Starter and Manifold Wrench

Engineered especially for starter and manifold work on Chevrolet and other cars.

Has  $\frac{9}{16}$ " and  $\frac{5}{8}$ " double hexagon openings.

It is  $7\frac{3}{4}$ " long.

Made of Bonaloy Steel, Chrome plated.



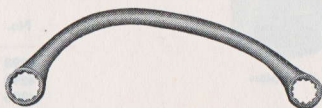
## No. 2884 Starter Wrench

Designed expressly for removing and reinstalling 1937 and 1938 Chevrolet starters.

Has  $\frac{9}{16}$ " and  $\frac{3}{4}$ " double hexagon openings.

It is  $7\frac{3}{4}$ " long.

Made of Bonaloy Steel, Chrome plated.



## No. 1950 for 1939 Steering Worm Adjustments

This wrench is designed specifically for steering worm adjustments on 1939 Chevrolets.

Has  $1\frac{9}{16}$ " opening and is  $12\frac{1}{2}$ " long.

Made of Bonaloy Steel, Chrome plated with polished head.



## No. 2629 Brake Wrench for Chrysler Built Cars

Single head box wrench with  $1\frac{1}{16}$ " double hexagon opening for brake adjustments on Chrysler, Dodge, De Soto and Plymouth cars.

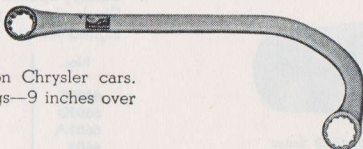
Chrome plated.



## No. 2883 Starter Wrench for Chrysler

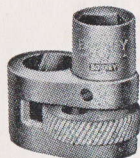
Designed especially for use on starter nuts on Chrysler cars. Has  $\frac{9}{16}$ " and  $\frac{5}{8}$ " inch double hexagon openings—9 inches over all length.

Made of Bonaloy steel, chrome plated.



# Special Sockets

## Stud Wrench



Stud Wrench

No. 2591—Made for use with  $\frac{1}{2}$ " square drive handles and attachments, this stud wrench is found indispensable by mechanics for removing and setting studs.

Designed to take studs from  $\frac{5}{16}$ " to  $\frac{3}{4}$ " in diameter, it has an eccentrically mounted roller with a deeply milled edge which provides a non-slipping, non-burring, gripping device.

Made entirely of Bonaloy Steel, chrome plated and polished.

## Adaptors



Adaptors

This series of adaptors is designed with square female openings. All have square male drive. They are made of Bonaloy Steel, heat-treated and completely chrome plated.

No.	Sizes	
	Female Opening	Male End
4298	$\frac{1}{8}$ " square	$\frac{3}{4}$ " square
4299	$\frac{3}{4}$ " square	$\frac{1}{2}$ " square
4206	$\frac{1}{2}$ " square	$\frac{3}{8}$ " square
4211	$\frac{3}{4}$ " square	1" square
4213	1" square	$\frac{3}{4}$ " square
4215	$\frac{3}{8}$ " square	$\frac{1}{2}$ " square

## Drag Link Sockets



Drag Link Sockets

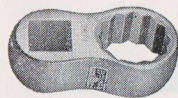
Bonney Drag Link Sockets are made of Bonaloy Steel, carefully heat-treated and fully chrome plated. They are designed for use with  $\frac{1}{2}$ " square drive attachments.

No. 4001—For drag link adjustments on passenger cars. Blade is  $\frac{15}{16}$ " wide.

No. 4001A—For drag link adjustments on Model "A" Ford. Blade is  $\frac{47}{64}$ " wide.

No. 4002—For drag link adjustments on trucks. Blade is  $1\frac{3}{16}$ " wide.

## Crowfoot Attachments



No. 2866 to  
No. 2874

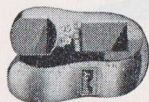
Crowfoot Attachments are useful in making adjustments in "hard-to-get-at" places. Designed with standard  $\frac{1}{2}$ " square drive.

No.	Openings
2866	$\frac{1}{2}$ " Double Hexagon
2868	$\frac{9}{16}$ " Double Hexagon
2870	$\frac{5}{8}$ " Double Hexagon
2872	$1\frac{1}{16}$ " Double Hexagon
2874	$\frac{3}{4}$ " Double Hexagon

## Special Crowfoot Open-End Attachments

Bonney Special Crowfoot Open-end Attachments are made of Bonaloy Steel, chrome plated and buffed to a high, permanent lustre. Designed for use with handles having  $\frac{1}{2}$ " square drive.

No.	Openings	No.	Openings
6603C	$\frac{1}{2}$ " Open End	6603B	$1\frac{1}{16}$ " Open End
6603D	$\frac{7}{16}$ " Open End	6606	$\frac{3}{4}$ " Open End
6603A	$\frac{9}{16}$ " Open End	6606A	$1\frac{3}{16}$ " Open End
6603	$\frac{5}{8}$ " Open End	6606B	$\frac{7}{8}$ " Open End



No. 6603 Series

# Rim Wrenches

## No. 2420 Series

The single hexagon Rim Wrenches listed below are designed to take care of practically all sizes of passenger car wheel nuts. Plated finish enhances the appearance and durability.

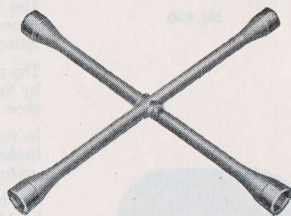
No.	Opening
2420	$\frac{5}{8}$
2422	$1\frac{1}{16}$
2424	$\frac{3}{4}$
2426	$1\frac{3}{16}$
2428	$\frac{7}{8}$



No. 2420 Series

## No. 2553 Cross Rim Wrench

A sturdy tool for garage, service station or car owner. The  $\frac{5}{8}$ ",  $\frac{3}{4}$ ",  $1\frac{3}{16}$ " and  $\frac{7}{8}$ " single hexagon openings cover practically all sizes of passenger car wheel nuts. Made of Bonaloy Steel, chrome plated.



No. 2553

## Truck Rim Wrenches

Nos. 7940 and 7941 are designed especially for use on Ford truck rim nuts. No. 7944 is for rim nuts on practically all other makes of trucks, and the No. 7942 is a handle and pry bar for use with the wrenches mentioned above.

All items have plated finish.

No.	Openings	Length
7940	$1\frac{3}{16}$ " square & $1\frac{1}{8}$ " hexagon	16 $\frac{7}{8}$
7941	$1\frac{3}{16}$ " square & $1\frac{1}{2}$ " hexagon	16 $\frac{7}{8}$
7944	$\frac{7}{8}$ " hexagon & $1\frac{1}{16}$ " hexagon	14 $\frac{7}{8}$
7944A	$\frac{7}{8}$ " hexagon & $1\frac{3}{16}$ " hexagon	14 $\frac{7}{8}$
7942	Handle and pry bar	20"



No. 7944 and 7944A

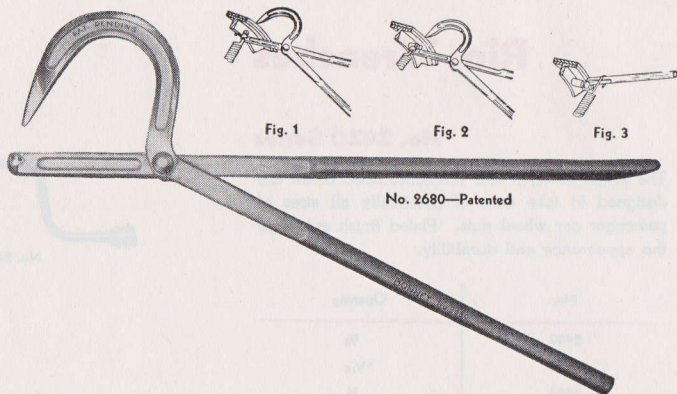


No. 7940-7941



No. 7942

# Bonney Brake Tools

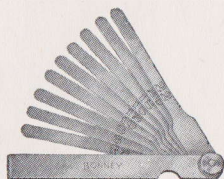


No. 2680—Patented

Fig. 1

Fig. 2

Fig. 3



No. K50

## No. 2680 Brake Spring Plier

Designed especially for the removal and replacement of internal brake springs on cars and trucks of all types and sizes, this new brake spring plier will be found unusually efficient.

The hooked end of the plier grasps the brake spring firmly, while the "goose-neck" pointed side of the plier makes firm contact with the brake lining on the shoe and prevents any possibility of slipping.

The plier can be used equally well in the removal of springs held in place by the hole in the brake shoe (Fig. 1), or by a stud attached to the brake shoe (Fig. 2).

In replacing brake springs on brakes that have the stud fastened to the brake shoe (Fig. 3), the notched end of the plier will be found exceptionally useful.

The No. 2680 Brake Spring Plier is drop forged of Bonaloy Steel, carefully heat-treated, with full chromium plated finish. It weighs only 11 ounces. Its 12½" length provides leverage to handle the strongest springs with ease.

## No. K50 Brake Adjusting Gauge

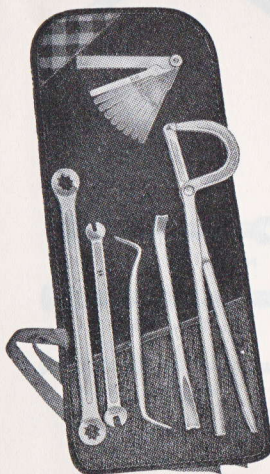
A feeler gauge designed expressly for measuring clearance between brake drum and shoe. Blades are made from finest, imported Swedish Steel, carefully heat-treated and tempered to withstand wear. Each blade is tested to insure the exact thickness etched on it.

It is equipped with a knurled thumb nut for instant release and selection of the blade desired. When tightened, it holds the blade selected in working position, while blades not needed are securely locked in the handle.

No. K50 has 9 blades, each 4" long, in the following thickness—.006; .008; .010; .012; .015; .018; .020; .022 and .032.

## No. 51 Brake Set - 6 Pieces

Contains the six brake tools most often needed in the servicing and adjusting of brakes on practically all makes and models of cars and trucks. Individual tools are described on this page and page 81.



No. 51 Set

Nos. 2566  
2566A

Nos. D2857  
2561

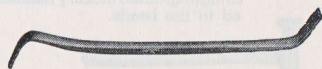
Nos. 2680  
K50

packed in a handy leatherette roll.

# Bonney Brake Tools

## Nos. 2566 and 2566A

For making brake adjustments on cars equipped with Bendix Brakes. No. 2566 has  $\frac{1}{2}$ " width blades, is  $7\frac{1}{2}$ " overall. No. 2566A has  $\frac{1}{2}$ " width blades, is 8" overall. Chrome plated.



Nos. 2566 and 2566A

## No. 2561

Specially designed for adjustment of Bendix Brake eccentric. Has  $\frac{3}{16}$ " and  $\frac{1}{4}$ " openings. Length overall 8". Chrome plated.



No. 2561

## No. 2599

Designed for adjustments on Bendix hydraulic brakes. The curved blade is for "star wheel" adjustments and the open end is for eccentric nut.

Blade is  $\frac{3}{8}$ " wide, open end has  $\frac{3}{16}$ " opening— $9\frac{1}{8}$ " long. Chrome plated.



No. 2599

## No. 2629 Brake Wrench for Chrysler Built Cars

Single head box wrench with  $1\frac{1}{16}$ " double hexagon opening for brake adjustments on Chrysler, Dodge, DeSoto and Plymouth cars. Chrome plated.



No. 2629

## Open End Box Wrenches For Copper Tube Fittings

Drop forged of Bonaloy Steel, carefully heat treated and chrome plated, these wrenches have slotted, double hexagon openings for removal and replacement of copper tube flare nuts and fittings on hydraulic brake lines and gas lines. Heads are offset at  $15^\circ$  angle and openings are at  $15^\circ$  for efficiency. Handles are panelled and different size openings are in each end.



Nos. 2612 and 2618

No.	Openings	Length
2612	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{3}{4}$
2618	$\frac{7}{16}$ & $\frac{9}{16}$	5

## No. D2857

For making adjustments to mechanical brakes on Ford cars and trucks.

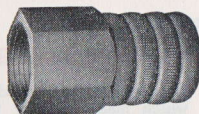
Has  $\frac{1}{16}$  &  $\frac{1}{2}$ " double square openings  $10\frac{3}{4}$ " long. Chrome plated.



No. D2857

## "Knock-Off" Wheel Pullers

These "knock-off" wheel pullers are inexpensive tools that will be found useful on practically all makes of cars and trucks. They are made of special analysis steel, accurately machined and heat-treated, but due to the service to which they are put, they are not guaranteed.

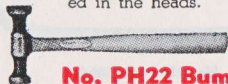


"Knock-Off" Wheel Pullers

No. and Size	No. and Size
$\frac{3}{8}$ —18	$\frac{7}{8}$ —14
$\frac{3}{4}$ —16	1—14

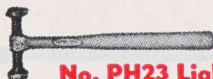
# Bonney Body and Fender Tools

The heads of the hammers described below are drop forged of high grade hammer steel with straight-grained hickory handles securely anchored in the heads.



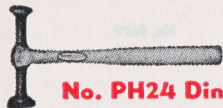
## No. PH22 Bumping Hammer

No. PH22—This hammer has polished faces and black body. Head  $4\frac{1}{4}$ " inches long. Round face  $1\frac{1}{4}$ " inches in diameter. Square face  $1\frac{1}{4}$ " inches square. Overall length 12 inches.



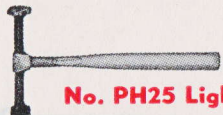
## No. PH23 Light Bumping Hammer

A light weight finishing hammer with polished faces on the head and black body. Head 4" long. Round face  $1\frac{1}{4}$ " inches diameter. Square face  $1\frac{1}{8}$ " inches square. Overall length  $11\frac{1}{2}$ " inches. Head weight 9 oz.



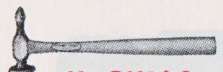
## No. PH24 Dinging Hammer

A finishing hammer with faces crowned and polished—body of head finished in black. Head 6 inches long. Large face  $1\frac{5}{8}$ " inches diameter. Small face  $1\frac{1}{4}$ " inches diameter. Overall length 12 inches. Head weight 13 oz.



## No. PH25 Light Dinging Hammer

A sturdily made, light weight finishing hammer. Head  $6\frac{1}{2}$ " inches long. Large face  $1\frac{1}{4}$ " inches square. Small face  $1\frac{1}{8}$ " inches diameter. Overall length  $11\frac{1}{2}$ " inches. Head weight 10 oz.



## No. PH26 Spec. Bumping Hammer

The head is drop-forged with bullet shaped end which makes it easy to remove small dents. Face of the head is polished with body finished in black. Strong hickory handle. Head 4 inches long. Overall length 12 inches. Head weight 7 oz.



## No. F24 File Holder

This is the type of file holder most popular in body repair shops. Designed especially for No. F25—14" Flexible File Blade. Made of wood with grip over the blade which assures accurate filing. Weight 15 ozs.



## No. F25 14" Flexible File Blade

This body file blade has teeth designed on the milling cutter principle. Each tooth has a land and groove. The lands increase cutting quality. The curved groove curls and eliminates the chips and prevents "loading". Recommended for use on sheet steel of all kinds, as well as repairing and refinishing auto bodies and fenders. Particularly effective for filing soft metals. For use with No. F24 or F31 File Holders. Overall length 14 inches.

## No. F26 Set

Consists of one No. F24 File Holder and six No. F25—14" Flexible U Tooth Files. Holder in this set furnished without cost.



## No. F31 Adjustable Flexible File Holder

An adjustable aluminum file holder for use with 14" flexible file blades. Permits flexing of file for use on a hollow (concave) or a round (convex).

# Bonney Body and Fender Tools

## No. F2 Regular or Toe Dolly Block



Drop-forged of selected steel. Length  $4\frac{3}{4}$  inches. Width  $2\frac{1}{2}$  inches. Thickness  $1\frac{1}{16}$  inches. Weight  $2\frac{1}{2}$  lbs.

## No. F6 General Purpose Dolly Block

This dolly block will find many uses in body repair work. Weight 3 lbs.



## No. F3 Heel Dolly Block



Drop-forged of steel most suitable for this type tool. Length  $2\frac{1}{2}$  inches. Width  $1\frac{1}{2}$  inches. Weight  $2\frac{1}{4}$  lbs.

## No. F7 Budd Dolly Block

Drop-forged of selected steel. Its curved surfaces are designed so that it will take care of any repair on a Budd Body. Each block is carefully gauged after it is polished to insure correct radii of the curves. Weight 3 lbs.



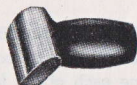
## No. F4 Bar Dolly Block



Drop-forged steel. Length  $4\frac{1}{4}$  inches. Width 2 inches. Weight 3 lbs.

## No. F10 Small Hand Hold Dolly

The hand hold makes this dolly a favorite among body repairmen. Weight  $2\frac{1}{4}$  lbs.



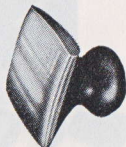
## No. F5 Wedge Dolly Block



Designed especially for work on turret tops. Drop-forged of selected steel. Length 5". Width  $2\frac{1}{2}$ ". Weight  $2\frac{1}{2}$  lbs.

## No. F12 Large Hand Hold Dolly

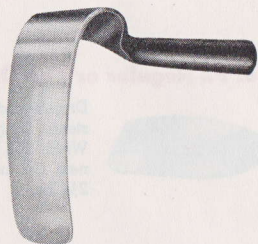
A heavy duty dolly for all-around use. Weight  $3\frac{1}{2}$  lbs.



# Bonney Body and Fender Tools

## No. F13 Special Door Panel Spoon

In addition to work on door panels, this spoon will be found handy for working on the quarterdeck of turret tops and between the headlining strainer and roof panels. It is also handy for work between the fender bracket and fender metal where a dolly block can't be used. Blade is  $2\frac{1}{4}$ " wide,  $5\frac{1}{2}$ " long. Handle is  $\frac{7}{8}$ " diameter. Weight 23 oz.



## No. F15 Wide Body Spoon

Dimensions of blade  $2\frac{1}{16}$ " wide, 5" long. Overall length  $10\frac{1}{2}$ ". Weight 1 lb.



## No. F16 Panel Spoon

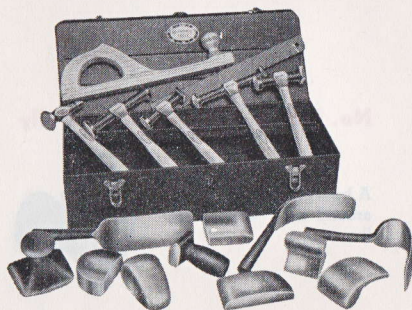
Used in general body repair work and on turret tops. Forged of selected steel with polished working surfaces. Blade  $2\frac{1}{4}$ " wide,  $6\frac{1}{4}$ " long. Overall length  $11\frac{1}{4}$ ". Weight 22 oz. Packed 6 to the box.



## No. FB7 Body and Fender Set

18 Pieces

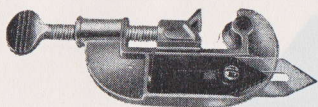
The Bonney No. FB7 Set is a very complete set of body and fender tools for the specialist in work of this kind. Packed in metal box  $20'' \times 8'' \times 5''$ , with carrying handle, padlock hasp, and end catches, the set consists of one each of the following:



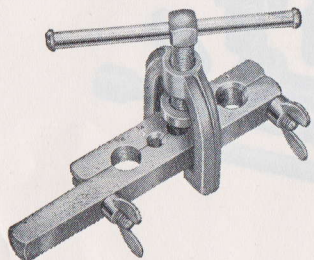
No	Description
F2	Regular or Toe Dolly
F3	Heel Dolly
F4	Bar Dolly
F5	Wedge Dolly Block
F6	General Purpose Dolly
F7	Budd Dolly
F10	Small Hand Hold Dolly
F12	Large Hand Hold Dolly
F13	Special Door Panel Spoon
F15	Wide Body Spoon
F16	Panel Spoon
F24	File Holder
F25	14" Flexible File Blade
PH22	Bumping Hammer
PH23	Light Bumping Hammer
PH24	Dinging Hammer
PH25	Light Dinging Hammer
PH26	Special Bumping Hammer

# Special Tools for Tube Work

## No. RF59 Tube Cutter



A compact, efficient tube cutter for all tubing from  $\frac{1}{8}$ " to 1" O. D. Body is an alloy die casting. Wafer-tapered, hardened cutting blade makes cutting easy and with practically no burr. The slide-lock safety reamer opens instantly and protects the hands when not in use. It may be safely carried in your pocket. A low-priced, quality tool. Net weight  $\frac{1}{2}$  lb.



## No. RF46 Flaring Tool

The Bonney RF46 flaring tool is made of Bonaloy Steel, carefully machined and heat treated to withstand hard usage. It is convenient to operate and accommodates all the common sizes of tubing.

Openings are for tubing sizes listed below:

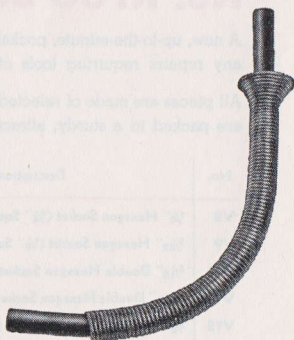
$\frac{1}{4}$ ",  $\frac{3}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ "

## Tube Benders • External Type

Ideal for bending copper and other tubing by hand to any desired shape without collapsing the tube.

Made of special oil-hardened spring steel, cadmium plated. The belled end assures ease in removing the tubing after the bend has been made.

No.	For Size Tubing	No.	For Size Tubing
RF60	$\frac{1}{4}$	RF63	$\frac{7}{16}$
RF61	$\frac{3}{16}$	RF64	$\frac{1}{2}$
RF62	$\frac{3}{8}$	RF65	$\frac{5}{8}$



## No. RF66 Tube Bender Set

Every service man should have a complete set of tube benders in his kit. The set consists of one each of the above sizes.



## No. RF80 Set • 20 Pieces

A new, up-to-the-minute, pocket size kit of refrigeration sockets and ratchet for use on practically any repairs requiring tools of this type.

All pieces are made of selected steels and heavily plated. One each of the following 20 pieces are packed in a sturdy, attractively finished metal box which measures  $7\frac{1}{2}'' \times 3\frac{1}{4}'' \times 1\frac{1}{8}''$

No.	Description	No.	Description
V8	$\frac{1}{4}''$ Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF4	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)
V9	$\frac{9}{32}''$ Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF5	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)
V10	$\frac{5}{16}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF6	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V11	$\frac{11}{32}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF16	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V12	$\frac{3}{8}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF71	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V14	$\frac{7}{16}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF72	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V17	Sliding 'T' Handle, $4\frac{1}{2}''$ long ( $\frac{1}{4}''$ Square Drive)	RF73	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V18	Extension, $6''$ long ( $\frac{1}{4}''$ Square Drive)	RF67	Kerotest Valve Packing Nut Socket ( $\frac{1}{4}''$ Male Drive)
RF2	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)	RF49	$\frac{1}{4}'' \times \frac{1}{4}''$ Adaptor
RF3	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)	RF22	Ratchet Handle ( $\frac{1}{4}''$ Square Ratchet Opening)

Net Weight 2 lbs., 2 ozs.



## No. RF81 Set • 28 Pieces

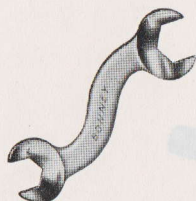
In the No. RF81 Set will be found practically all of the sockets and attachments, including the popular Bonney No. RF22 Ratchet, that the refrigeration service man will need on all ordinary jobs. In addition three thin wall, double hexagon special refrigeration box wrenches are included.

All are packed in a heavy gauge metal box, attractively finished, which measures  $8\frac{5}{8}'' \times 5\frac{3}{4}'' \times 1\frac{1}{4}''$

No.	Description	No.	Description
V8	$\frac{1}{4}''$ Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF3	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)
V9	$\frac{9}{32}''$ Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF4	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)
V10	$\frac{5}{16}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF5	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)
V11	$\frac{11}{32}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF6	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V12	$\frac{3}{8}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF16	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V14	$\frac{7}{16}''$ Double Hexagon Socket ( $\frac{1}{4}''$ Square Drive)	RF71	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V17	Sliding 'T' Handle, $4\frac{1}{2}''$ long ( $\frac{1}{4}''$ Square Drive)	RF73	Packing Gland Nut Socket ( $\frac{1}{4}''$ Male Drive)
V18	Extension 6" long ( $\frac{1}{4}''$ Square Drive)	RF67	Kerotest Valve Packing Nut Socket ( $\frac{1}{4}''$ Male Drive)
T4	Extension, 6" long ( $\frac{3}{8}''$ Square Drive)	RF49	$\frac{1}{4}'' \times \frac{1}{4}''$ Adaptor
T16	$\frac{1}{2}''$ Double Hexagon Socket ( $\frac{3}{8}''$ Square Drive)	RF41	$\frac{1}{4}'' \times \frac{3}{8}''$ Adaptor
T18	$\frac{9}{16}''$ Double Hexagon Socket ( $\frac{3}{8}''$ Square Drive)	RF22	Refrigeration Ratchet ( $\frac{1}{4}''$ Sq. Ratchet Opening)
T20	$\frac{5}{8}''$ Double Hexagon Socket ( $\frac{3}{8}''$ Square Drive)	2804	$\frac{3}{8}'' \times \frac{7}{16}''$ Thin Wall Double Hexagon Box Wrench
T36	Sliding 'T' Handle 8" long ( $\frac{3}{8}''$ Square Drive)	2805	$\frac{1}{2}'' \times \frac{9}{16}''$ Thin Wall Double Hexagon Box Wrench
RF2	Valve Stem Socket ( $\frac{1}{4}''$ Male Drive)	2806C	$\frac{5}{8}'' \times \frac{11}{16}''$ Thin Wall Double Hexagon Box Wrench

# Special Refrigeration Tools

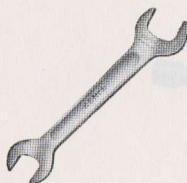
## "S" Type Flare Nut Wrenches



These wrenches are for those who prefer the open end to the box type wrench in making flare nut adjustments. They are drop-forged of selected steel, carefully heat treated and have plated finish.

No	Openings	S.A.E Flare Size	Length
72A	$\frac{3}{4}$ & 1	$\frac{3}{16}$ , $\frac{1}{4}$ , $\frac{5}{16}$ & $\frac{7}{16}$ , $\frac{1}{2}$	5 $\frac{1}{2}$
73A	$\frac{7}{8}$ & 1 $\frac{1}{8}$	$\frac{3}{8}$ & $\frac{5}{8}$	6 $\frac{1}{8}$

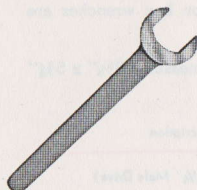
## Switch Adjusting Wrench



Forged of Bonaloy Steel with plated finish, this wrench is designed especially for switch adjustments on the "W" line of Frigidaire cabinet up to and including 1933. This wrench is exceptionally thin for working in close quarters and has panelled handle. Openings are at 15° angle.

No.	Openings	Length	Thickness of Head
H18S	$\frac{7}{16}$ & $\frac{9}{16}$	4	$\frac{1}{8}$

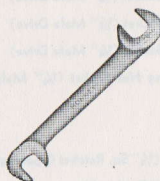
## Open End Wrench for Superior Packless Valve



A single head service wrench forged of Bonaloy Steel, chrome plated and with polished head designed especially to fit the hexagon on the auxiliary body of the Superior Diaphragm Packless Valve.

No.	Openings	Length	Thickness of Head
1964	2	12 $\frac{1}{4}$	$\frac{5}{16}$

## Right Angle Wrenches



Openings in the most necessary sizes for refrigeration service work. Drop forged of Bonaloy Steel, fully chrome plated and with polished heads.

No.	Size Openings	Length	Thickness of Heads	Amer. Std. Reg. Bolts	Amer. Std. Reg. Nuts, Size Bolts	Amer. Std. Light Nuts (S.A.E.), Size Bolts
2723	$\frac{3}{8}$ & $\frac{7}{16}$	4 $\frac{1}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
2725B	$\frac{1}{2}$ & $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{15}{64}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$
2729	$\frac{3}{8}$ & $\frac{3}{4}$	7 $\frac{1}{2}$	$\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$

# Special Refrigeration Tools

Bonney special refrigeration sockets have been designed to care for all applications where tools of this character are used. Each type is made in all the necessary sizes to service practically any refrigerator on the market.

Bonney special refrigeration sockets are made of selected steel, carefully heat-treated, plated and polished.

## Packing Gland Nut Sockets



"T" Handle Type

No.	Prong Depth	Prong Width	Inside Diameter	Outside Diameter	Overall Length
RF17	1/8	7/64	21/64	15/32	2
RF18	1/8	7/64	21/64	9/16	2



1/4" Male Drive

Designed for use with No. RF22, and No. RF45 Ratchets or any Ratchet handle having 1/4" opening.

No.	Prong Depth	Prong Width	Inside Diameter	Outside Diameter	Overall Length
RF6	1/8	1/8	3/8	5/8	13/8
RF16	1/8	1/8	21/64	15/32	13/4
RF71	3/32	3/32	9/16	7/16	15/8
RF72	1/8	1/8	21/64	15/32	111/16
RF73	1/8	1/8	3/8	5/8	111/16

## Kerotest Valve Packing Nut Socket



1/4" Male Drive

This socket has been specially designed for repairs and adjustments on Kerotest valves.

No.	Obround Opening		Outside Diameter	Length
	Length	Width		
RF67	1/2	3/8	5/8	1 1/16

## Valve Stem Sockets



"T" Handle Type

No.	Size Square Opening	Outside Diameter		Length
		Nose	Shank	
RF10	3/16	27/64	1/2	1 7/8
RF11	7/32	27/64	1/2	1 7/8
RF12	1/4	1/2	1/2	1 7/8
RF13	9/16	9/16	9/16	1 7/8
RF14	3/8	3/8	3/8	1 7/8



1/4" Male Drive

For use with any Ratchet handle having 1/4" opening and Bonney Ratchets Nos. RF22 and RF45.

No.	Size Square Opening	Outside Diameter		Length
		Nose	Shank	
RF2	3/16	27/64	1/2	1 3/8
RF5	7/32	1/2	1/2	1 3/8
RF3	1/4	1/2	1/2	1 3/8
RF4	5/16	9/16	9/16	1 3/8

## Ratchet Plug Adaptors

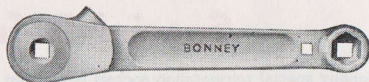


For use with Nos. RF22 and RF45 Ratchets. Made of Bonaloy Steel, heat-treated and plated.

No.	Plug End	Drive End
RF49	1/4	1/4
RF40	1/4	3/32
RF41	1/4	3/8

# Special Refrigeration Tools

## Non-Reversible Type Ratchet



This type of ratchet, made with four different size ratchet openings, is forged of Bonaloy Steel with plated finish. The ratchet is fully enclosed to keep out all dust and dirt.

They are specially adapted to work on small refrigerant cylinders, shut-off and reducing valves, compressors, motors, etc.

No.	Ratchet Opening Square	Handle Opening Square	Handle Opening Hexagon	Length
RF21	$\frac{3}{16}$	$\frac{3}{16} \times \frac{1}{4}$	$\frac{1}{2}$	6
RF22	$\frac{1}{4}$	$\frac{3}{16} \times \frac{1}{4}$	$\frac{1}{2}$	6
RF23	$\frac{5}{16}$	$\frac{3}{16} \times \frac{5}{16}$	$\frac{1}{2}$	6
RF25	$\frac{3}{8}$	$\frac{3}{16} \times \frac{1}{4}$	$\frac{1}{2}$	6

## Flare Nut Wrenches



These open end, box type wrenches have been designed especially for making flare nut adjustments. They are drop-forged of Bonaloy Steel, chromium plated with polished heads. They are long, thin and with panelled handles, permitting a firm, comfortable grip. Heads have double hexagon openings.

Open End  
Box Type

No.	Openings	S.A.E. Flare Size	Length
RF54A	$\frac{3}{4} \times \frac{7}{8}$	$\frac{3}{16}, \frac{1}{4}, \frac{5}{16} \times \frac{3}{8}$	8
RF54	$\frac{3}{4} \times 1$	$\frac{3}{16}, \frac{1}{4}, \frac{5}{16} \times \frac{7}{16}, \frac{1}{2}$	8
RF55A	$\frac{7}{8} \times 1$	$\frac{3}{8} \times \frac{7}{16}, \frac{1}{2}$	9½
RF55	$\frac{7}{8} \times 1\frac{1}{8}$	$\frac{3}{8} \times \frac{5}{8}$	9½



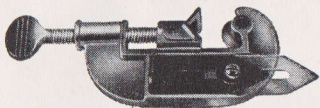
Open End  
Box Type

Drop-forged of Bonaloy Steel these two wrenches are especially for copper tube fittings with  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ " and  $\frac{9}{16}$ " hexagon. The wrenches are fully chrome-plated with polished heads, have panelled handles and double hexagon openings. No. 2618 is designed specially for the removal of the copper tubing flare nut on the back of the expansion valve on all Kelvinator models previous to the hermetically sealed units.

Heads are at 15° angles.

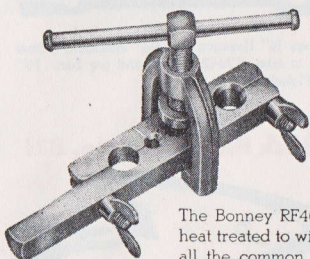
No.	Openings	Length
2612	$\frac{3}{8} \times \frac{1}{2}$	4¾
2618	$\frac{7}{16} \times \frac{9}{16}$	5

# Special Refrigeration Tools



## No. RF59 Tube Cutter

A compact, efficient tube cutter for all tubing from  $\frac{1}{8}$ " to 1" O.D. Body is an alloy die casting. Wafer-tapered, hardened cutting blade makes cutting easy and with practically no burr. The slide-lock safety reamer opens instantly and protects the hands when not in use. It may be safely carried in your pocket. Net weight  $\frac{1}{2}$  lb.

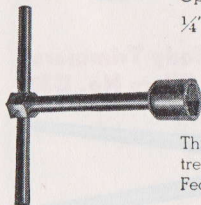


## No. RF46 Flaring Tool

The Bonney RF46 flaring tool is made of Bonaloy Steel, carefully machined and heat treated to withstand hard usage. It is convenient to operate and accommodates all the common sizes of tubing.

Openings are for tubing sizes listed below:

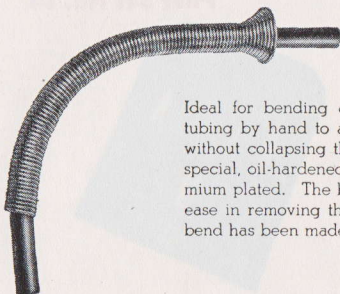
$\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ".



## Socket Wrench for Fedders Needle Seat Assembly

This "T" handle socket wrench is drop-forged of selected steel, carefully heat-treated and has plated finish. It is designed especially for inserting and removing Fedders cartridge type needle seat assembly. Has single hexagon opening.

No.	Opening	Diameter of Head	Length
RF57	$\frac{7}{16}$	$1\frac{9}{32}$	$4\frac{7}{8}$



## Bonney Tube Benders External Type

No.	For Size Tubing
RF60	$\frac{1}{4}$
RF61	$\frac{5}{16}$
RF62	$\frac{3}{8}$
RF63	$\frac{7}{16}$
RF64	$\frac{1}{2}$
RF65	$\frac{5}{8}$

## No. RF66 Tube Bender Set

Every service man should have a complete set of tube benders in his kit. The set consists of one each of the above sizes.

## SUPPLEMENTARY TOOL SECTION

### Chevrolet Truck Rim Wrench No. 7943A

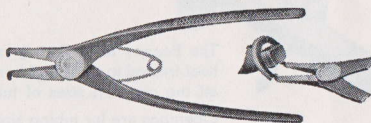
This wrench is especially designed to handle wheel lugs on Chevrolet trucks up to and including 1947 models. The  $\frac{7}{8}$ " end takes care of trucks prior to 1946 and the light trucks in 1946 and 1947. The  $\frac{15}{16}$ " end has been added to take care of the heavy series trucks built during 1946 and 1947.



Openings  $\frac{7}{8}$ " Hexagon and  $\frac{15}{16}$ " Hexagon. Cross Drilled to take #7942 Handle and pry bar. 15" long—Plated finish.

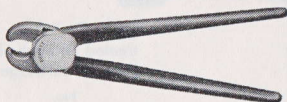
### Lock Ring Pliers No. B21

These pliers are designed to remove and install lock rings. Made of alloy steel.



### Spring Manufacturers' and Body Trimmers' Hog Ring Pliers No. B33

A necessary item in every body shop for spring and upholstery repair work. For large Rings—to Close Right Prong over Left Prong.

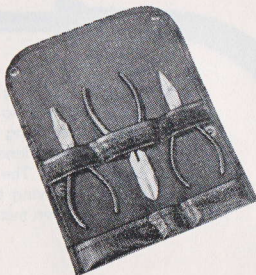


### Plier Set No. 14

Very useful on ignition, starter, generator, carburetor, and general light wiring and instrument works.

Contains one each of 3 small 4" pliers.

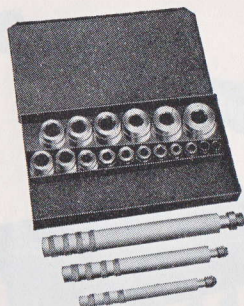
- Flat nose plier
- Short Chain nose plier
- Diagonal cutting plier



# SUPPLEMENTARY TOOL SECTION

S-2

## Bushing Driver Set No. BU40



This Bushing Driver Set is designed to drive all passenger car bushings and many truck and tractor bushings.

These tools are made of alloy steel carefully hardened and tempered to give the best of service.

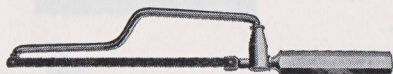
Guaranteed against defects in workmanship and materials.

Packed in a metal box 7 $\frac{7}{8}$ " long; 4 $\frac{1}{8}$ " wide; 1" high.

### Set Includes

Bushing I.D.	Drive O.D.	Fits Handle No.
40-1 Driver	1 $\frac{13}{32}$	42-1, 42-2
40-2 Driver	1 $\frac{3}{16}$	42-1, 42-2
40-3 Driver	1 $\frac{1}{2}$	42-1, 42-2
40-4 Driver	1 $\frac{1}{2}$	42-1, 42-2
40-5 Driver	1 $\frac{1}{16}$	42-1, 42-2
40-6 Driver	1 $\frac{1}{16}$	42-1, 42-2
40-7 Driver	1 $\frac{13}{32}$	42-1, 42-2
40-8 Driver	1 $\frac{13}{32}$	42-1, 42-2
40-9 Driver	1 $\frac{13}{32}$	42-1, 42-2
41-1 Driver	1 $\frac{13}{32}$	42-3
41-2 Driver	1 $\frac{13}{32}$	42-3
41-3 Driver	1 $\frac{13}{32}$	42-3
41-4 Driver	1 $\frac{13}{32}$	42-3
41-5 Driver	1	42-3
41-6 Driver	1 $\frac{13}{32}$	42-3
41-7 Driver	1 $\frac{13}{32}$	42-3
41-8 Driver	1 $\frac{13}{32}$	42-3
42-1 Handle	1 $\frac{13}{32}$ Dia. x 5" Long	
42-2 Handle	1 $\frac{13}{32}$ Dia. x 6" Long	
42-3 Handle	1 $\frac{13}{32}$ Dia. x 7 $\frac{3}{8}$ " Long	
43-1 Nut	fits 42-1 & 42-2	
43-2 Nut	fits 42-3	
40-7 will drive Chevrolet Six Water Pump Bushing.		
41-1 will drive Chevrolet Six King Bolt Bushing.		
41-3 will drive Chevrolet Six King Bolt Bushing.		
(Knee action car.)		

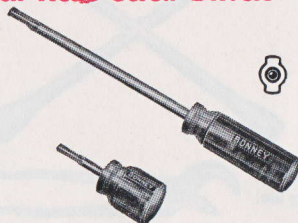
## Adjustable Tension Hack Saw Frame No. 2627



With 6" x  $\frac{1}{4}$ " hack saw blade. Fits in close places. Handy for electricians, plumbers, and mechanics. Indispensable for home mechanics.

Extra blades available.

## Clutch Head Screw Drivers



Made of alloy steel carefully heat treated to withstand severe usage. Handles are of transparent, non-conducting composition.

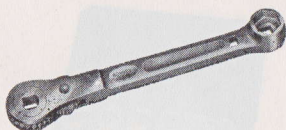
Clutch Size	Blade Length	Overall Length	Fits screw Sizes
CL 3	5 $\frac{1}{2}$ "	4"	7 $\frac{3}{4}$ "
CL 5	6"	6"	10 $\frac{1}{4}$ "
CL 7	6"	6"	10 $\frac{1}{4}$ "
CL 13	6"	6"	10 $\frac{1}{4}$ "
CL 15	6"	6"	10 $\frac{1}{4}$ "

CL Set—Contains one each of above sizes.

# SUPPLEMENTARY TOOL SECTION

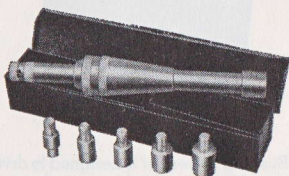
## Reversible Ratchet No. RF45

This ratchet is primarily designed for refrigeration work. It has an easy action, is light in weight, has trim lines, is strong and can be instantly reversed by a touch of the thumb. The ratchet opening is  $\frac{1}{4}$ " square, the openings in the handle are  $\frac{3}{16}$ " and  $\frac{1}{4}$ " square and  $\frac{1}{2}$ " hexagon socket. The tool is drop forged and plated. Overall length 6".



## Clutch Alignment Set No. CA41

This is a complete set that will handle the clutches of nearly all cars. The assortment of pilots included in each set results in one tool that will give quick, accurate clutch alignment. Supplied in a metal box  $10\frac{1}{4}$ " x  $1\frac{3}{4}$ " x  $1\frac{3}{4}$ ". Net weight approximately 5 lbs.

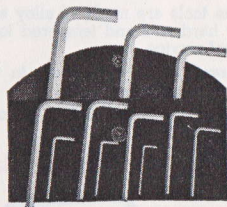


## Hexagonal Keys (Short Arm)

For use with hex socket set screws and cap screws. Plated finish. Set consists of one each of eleven popular sizes in a handy leatherette case.

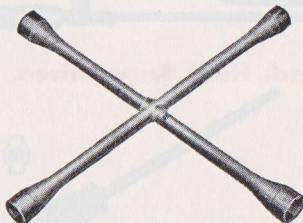
Tool No.	Size	Tool No.	Size
AW1	.050	AW6	$\frac{3}{16}$
AW2	$\frac{1}{16}$	AW7	$\frac{7}{16}$
AW2 $\frac{1}{2}$	$\frac{3}{8}$	AW8	$\frac{1}{4}$
AW3	$\frac{3}{16}$	AW10	$\frac{5}{16}$
AW4	$\frac{1}{8}$	AW12	$\frac{3}{4}$
AW5	$\frac{5}{16}$		

No. 5 Set in roll—11 pieces, one each of the above.



## Truck Wheel Wrench No. 2554

This is a heavy duty universal truck type 4-way wheel wrench, drop forged and plated. There are 6 openings as follows:  $\frac{13}{16}$ " square,  $\frac{7}{8}$ " hex, 1" hex,  $1\frac{1}{16}$ " hex,  $1\frac{3}{16}$ " hex and  $1\frac{1}{2}$ " hex. The overall length is 25" and approximate weight is 12 lbs.

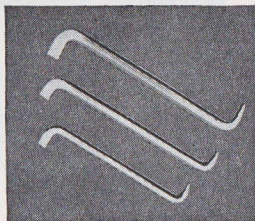


## Pump Plier No. B34

The patented design of this drop forged plier removes the load or strain from the bolt insuring unusual strength and long life. Size—9".



## Offset Screw Drivers



Made with offset on each end for use in making adjustments where clearances do not permit use of standard screw driver. These tools are available individually or as a set of three (No. 0672 Set) packed in a cardboard box. Plated finish.

Tool No.	Width of Tip	Length
0669	$\frac{1}{4}$	5 $\frac{3}{8}$
0670	$\frac{5}{16}$	5 $\frac{5}{8}$
0671	$\frac{3}{8}$	6 $\frac{1}{2}$
No. 0672 Set		

## Hexagon Extra Deep Sockets - $\frac{3}{4}$ " Square Drive



These are heavy duty deep sockets designed to be used for truck U bolts and any other application where the bolt extends through the nut. Precision broached for accurate fit.

Hex No.	Opening
LH32	1
LH34	1 $\frac{1}{8}$
LH36	1 $\frac{1}{4}$
LH40	1 $\frac{3}{4}$

## Plier Wrenches

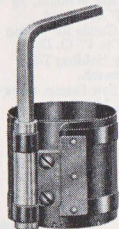
These tools are very fast in adjustment and easy to use. The design of the jaws with the bottom member a hinged fulcrum permits a firm solid grip without slippage on irregular shaped objects. The jaws can be made to grip at the ends only, if so desired.



Tool No.	Size
1607	7
1610	10

## Piston Ring Compressors

These compressors are the wind-up type and are made of the finest clock spring steel. They are easy to wind, are held with a locking device and are equipped with a wind-up spool with  $\frac{1}{4}$ " square drive socket and key.



Tool No.	Size
RC43	2 $\frac{1}{4}$ to 5
RC44	3 $\frac{1}{2}$ to 7

## Thread Restorers

Used like a file, these Thread Restorers are fast cutting and do a quick job in restoring battered or damaged threads on studs, bolts, capscrews, axle shafts, etc. They are made in two sizes.



- TR1—for 11, 12, 13, 14, 16, 18, 20, 24 threads to the inch.  
TR2—for 9, 10, 12, 16, 20, 27, 28, 32 threads to the inch.

# SUPPLEMENTARY TOOL SECTION

## RF85 Set - 76 Pieces

The Bonney RF85 Set is designed particularly for refrigeration mechanics and service men. It is a complete set and consists of special refrigeration tools, an assortment of sockets and attachments, combination wrenches and other necessary service tools.

Packed in red, crackle finish metal tool box 16" x 7" x 7", the contents are as follows:



No.	Description
RF80 Set #5 Set	In small metal box. In leatherette case.
<b>3/4" SQ. DRIVE SOCKETS AND ATTACHMENTS</b>	
T4	Extension, 6" long
T5	Extension, 12" long
T14	3/16" Double Hexagon Socket
T16	1/8" Double Hexagon Socket
T18	9/16" Double Hexagon Socket
T20	5/8" Double Hexagon Socket
T22	11/16" Double Hexagon Socket
T35	Reversible Ratchet, 7" long
T36	Sliding "T" Handle, 8" long
<b>DOUBLE OFFSET BOX WRENCHES</b>	
2804	3/8" & 1/2" Short Type, Dble. Hex. Opening
2805	1/2" & 3/4" Short Type, Dble. Hex. Opening
2806C	5/8" & 1 1/16" Short Type, Dble. Hex. Opening
<b>COMBINATION (TU- TYPE) WRENCHES</b>	
1160	3/8" Openings
1161	1/2" Openings
1162	3/4" Openings
1163	5/8" Openings
1164	3" Openings
<b>RIGHT ANGLE WRENCHES</b>	
2723	3/8" & 1/2" Openings
2725B	1/2" & 3/4" Openings
2729	3/4" & 1" Openings
2732A	1 1/8" & 1 1/4" Openings
2734	1 1/2" & 1 3/4" Openings

No.	Description	No.	Description
<b>TUBE BENDERS</b>		CP2	For Phillips Screws Nos. 5 to 9 inclusive
RF60	For 1 1/4" tubing	CP3	For Phillips Screws Nos. 10 to 16 inclusive
RF61	For 3/8" tubing	<b>MISCELLANEOUS</b>	
RF62	For 5/8" tubing	RF46	Flaring Tool for 1/4", 5/16"
RF63	For 1 1/8" tubing		3/8", 1/2", 5/8" tubing
RF64	For 1 1/2" tubing	RF54	Flare Nut Wrench, 3/4" & 1"
RF65	For 2" tubing		openings
<b>PLIERS</b>		RF55	Flare Nut Wrench, 3/8" & 1 1/8"
B25	Long Nose Side Cutting, 6"		openings
B27	Heavy Duty Slip Joint, 8"	RF59	Tube Cutter for tubing from 3/8" to 1" O. D.
B34	Pump Plier, 9"	K6	Handy Holding Tool, 6" reach.
<b>SCREW DRIVERS</b>		2627	Hack Saw Frame, takes 6" x 3/4" blade
001	Pocket Size, Composition Handle, 2" blade	PH5	Ball Pein Hammer, 3/2 lb. Head
003	Electricians', Composition Handle, 3" blade	199	Shop Knife
04	Round Shank, Composition Handle, 4" blade		
06	Round Shank, Composition Handle, 6" blade		

Net Weight 25 lbs.

## No. B35 Ignition Plier

This ignition plier has unusual strength because of the patented Wellcot design. The strain is removed from the bolt and there is no danger of the bolt breaking because of the Wellcot feature. It is drop forged from the finest quality alloy steel and is carefully heat treated. Has polished finish—Length 5".



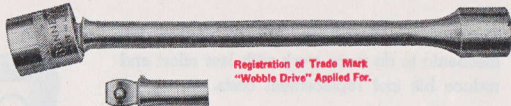
## "WOBBLE DRIVE" EXTENSIONS

Patent Applied For

This new tool is designed for work in close quarters. It enables a mechanic to obtain a small amount of swivel—approximately 12°, without the use of a universal joint.

The male end is a  $\frac{3}{8}$ " "wobble drive" which will receive any  $\frac{3}{8}$ " drive socket. The other end of the "Wobble Drive" Extension has a female  $\frac{3}{8}$ " square.

NOTE: Because of the unusual shape of the male end of this tool, its strength is obviously not the equivalent of a full  $\frac{3}{8}$ " drive and should be used for light duty work only. Therefore this item is not guaranteed.



Registration of Trade Mark  
"Wobble Drive" Applied For.

Tool No.	Size
AT 4	6"
AT 5	12"

## PLASTIC DRIFTS



These Plastic Drifts are very useful tools for work where it is desired to avoid marking or damaging finished parts. They are also useful for driving out grease retainers and bearings.

Bonney Plastic Drifts are made of a tough plastic material that stands up extremely well under severe pounding.

Tool No.	Length	O. D.
CD 4	6"	$\frac{3}{4}$ "
CD 6	6"	$\frac{1}{2}$ "
CD 8	6"	1"

CD Set—Contains one each of the above.

## MAGNETIC HOLDING TOOLS

These extremely useful tools have a powerful magnet in the hinged end. They are designed for extracting metal objects from tight places and work equally well on screws, washers, nuts, bolts, taper pins, valve pins, etc.

The larger tool (K2) has a telescope type extension handle.



Tool No.	Length
K 1	9"
K 2	27" extended

## WRENCHES FOR SOCKET HEAD SCREWS

These wrenches are made for all the popular sizes of set screws and cap screws. They are strong, easy to use and the bits are replaceable.



Tool No.	Size Hex Bit	Size Drive	For Set Screw	For Cap Screw
TW4	$\frac{1}{8}$ "	$\frac{3}{8}$ "	$\frac{1}{4}$ "	#8
TW5	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{3}{16}$ "	#10 & #12
TW6	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ "
TW7	$\frac{7}{16}$ "	$\frac{3}{8}$ "	$\frac{3}{16}$ "	$\frac{5}{16}$ "
TW8	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{8}$ "
TW10	$\frac{5}{8}$ "	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$\frac{3}{8}$ " & $\frac{7}{16}$ "
TW12	$\frac{3}{4}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "	$\frac{1}{2}$ "

# SUPPLEMENTARY TOOL SECTION

## PIPE WRENCHES

This superior, Rigid pipe wrench enables the mechanic to do more work with less effort and reduce his tool replacement costs.

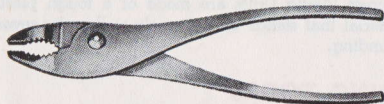
The jaws give quick, positive grip and instant let-go. They will not jam or lock on a pipe. The one piece construction of the I-beam handle and housing give extra strength and the adjusting nut spins easily.



Patent No. 1,727,623

Tool No.	Size
PW6	6
PW8	8
PW10	10
PW14	14
PW18	18
PW24	24
PW36	36
PW48	48

## SLIP JOINT PLIERS



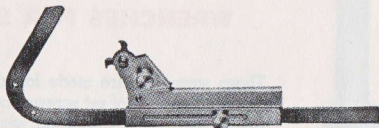
Tool No.	Size
B36	6
B38	8
B310	10

These combination slip joint pliers have two positions and their design removes the load or strain from the bolt insuring unusual strength and long life.

## PISTON RING GROOVE CLEANER - No. RC46

### Features

- Cut and skinned hands and knuckles eliminated.
- Can be used on all size pistons up to 6 inches.
- No turning or tilting.
- Uniform working tension.
- Non-gouging and non-chattering action.
- Will not jump or climb out of ring groove.
- Can be used as groove deepening tool.
- Positive cutter lock.
- Cutter easily removed for sharpening.
- Cutter Blades— $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ".



Patent No. 2,124,757

## CROWFOOT WRENCHES

These wrenches are specially designed for work on tubing fittings of the types commonly used in both aircraft engine and fuselage work. They enable the mechanic to reach many fittings otherwise inaccessible and are indispensable when it is necessary to use a torque wrench to obtain specified torques.

NOTE: These tools are for use on flare nuts only and should not be used on work requiring a heavy pull.

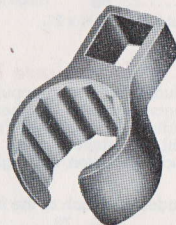
### Open End Type

Tool No.	Size	Drive	Head Thickness
TC11	11/16	3/4	3/4
TC12	3/8	3/8	3/8
TC14	1/2	3/8	3/8
TC16	5/8	3/8	3/8
TC18	3/4	3/8	3/8
TC20	7/8	3/8	3/8
TC22	1 1/8	3/8	3/8
TC24	1 1/4	3/8	3/8
TC26	1 3/8	3/8	3/8
TC28	1 1/2	3/8	3/8
AC30	5/16	1/2	1/2
AC32	11/16	1/2	1/2
AC34	1 1/8	1/2	1/2
AC36	1 1/4	1/2	1/2
AC38	1 3/8	1/2	1/2
AC40	1 1/2	1/2	1/2
AC42	1 5/8	1/2	1/2
AC44	1 3/4	1/2	1/2
AC46	1 7/8	1/2	1/2
AC48	2	1/2	1/2
AC50	2 1/8	1/2	1/2
ACS2	1 3/8	1/2	1/2
ACS4	1 5/8	1/2	1/2
ACS6	1 7/8	1/2	1/2
ACS8	2	1/2	1/2
AC60	2 1/4	1/2	1/2
AC62	2 3/8	1/2	1/2
AC64	2 1/2	1/2	1/2
AC66	2 3/4	1/2	1/2



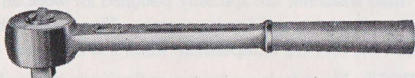
### Box Type

Tool No.	Size	Drive	Head Thickness	Width of Slot
VF12	3/4	1 1/2	1 1/2	1 1/2
VF14	1	1 1/2	1 1/2	1 1/2
VF16	1 1/4	1 1/2	1 1/2	1 1/2
VF18	1 1/2	1 1/2	1 1/2	1 1/2
TF20	5/8	3/4	3/4	1 1/2
TF22	11/8	3/4	3/4	1 1/2
TF24	3/4	3/4	3/4	1 1/2
TF26	13/8	3/4	3/4	1 1/2
TF28	1 1/2	3/4	3/4	1 1/2
TF30	1 5/8	3/4	3/4	1 1/2
TF32	1 3/4	3/4	3/4	1 1/2
TF34	1 7/8	3/4	3/4	1 1/2
AF36	1 1/4	1 1/2	1 1/2	1 1/2
AF38	1 3/8	1 1/2	1 1/2	1 1/2
AF40	1 1/2	1 1/2	1 1/2	1 1/2
AF42	1 5/8	1 1/2	1 1/2	1 1/2
AF44	1 3/4	1 1/2	1 1/2	1 1/2
AF46	1 7/8	1 1/2	1 1/2	1 1/2
AF48	2	1 1/2	1 1/2	1 1/2
AF50	1 1/4	1 1/2	1 1/2	1 1/2
AF52	1 3/8	1 1/2	1 1/2	1 1/2
AF54	1 1/2	1 1/2	1 1/2	1 1/2
AF56	1 5/8	1 1/2	1 1/2	1 1/2
AF58	1 3/4	1 1/2	1 1/2	1 1/2
AF60	1 7/8	1 1/2	1 1/2	1 1/2
AF62	2	1 1/2	1 1/2	1 1/2
AF64	2 1/4	1 1/2	1 1/2	1 1/2



**No. 4080 Planetary Ratchet, 1/2" Square Drive****Patent Applied For**

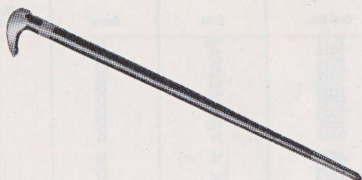
This new Bonney Reversible Ratchet has been developed to fill mechanics' needs for a close-quarters, positive engagement ratchet with minimum drag—a characteristic of free-wheeling ratchets. This ratchet provides the strength of a positive engagement mechanism, but without the drag normally found in this type of tool.

**No. C-39 Pry Bar**

The design of this rugged tool not only affords more effective leverage than the conventional pinch bar but it is adaptable to a wider range of work.

This tool can be used for removing gears, bushings, bearings and ball races as well as for pulling "frozen" valves, etc.

The tapered bar end is used as a lining-up punch.

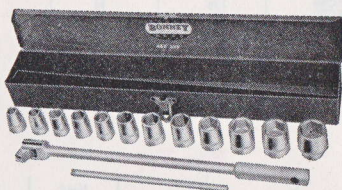
**No. C-39****9/16" Stock****Length 15-1/4"****No. AS-2 Socket Set, 1/2" Square Drive**

This set includes the 12 most popular size single hexagon sockets, 15" Hinge Handle, and 8" Cross Handle. The single hexagon sockets provide maximum strength required for aviation and automotive shop work.

The set includes one each of the following:

4014.....	7/16	4026.....	1 1/2
4016.....	1/2	4028.....	1 3/4
4018.....	9/16	4030.....	1 5/8
4019.....	19/32	4032.....	1
4020.....	5/8	4092.....	
4022.....	11/16		Cross Handle, 8" long
4024.....	3/4	4096.....	
4025.....	7/8		Hinge Handle, 15" long

Packed in metal box 18 x 2 3/4 x 2".

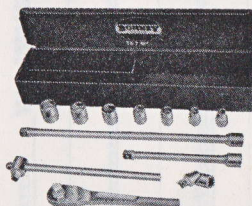
**No. TD-3 3/8" Square Drive**

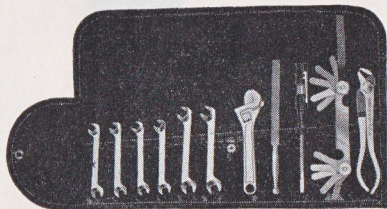
This set includes the 7 most popular 3/8" drive, single hexagon sockets, together with 2 extensions, Sliding "T" Handle, Universal Joint, and Reversible Ratchet. This selection is ideally suited to aviation and light automotive work.

The set includes one each of the following:

TH10.....	5/16	T3.....	Universal Joint
TH12.....	3/8	T4.....	Extension, 6" long
TH14.....	7/16	T5.....	Extension, 12" long
TH16.....	1/2	T35.....	Reversible Ratchet
TH18.....	9/16	T36.....	Sliding "T" Handle,
TH20.....	5/8		8" long
TH22.....	11/16		

Packed in metal box 13 x 3 x 2".





## No. 17A-LR Ignition Set

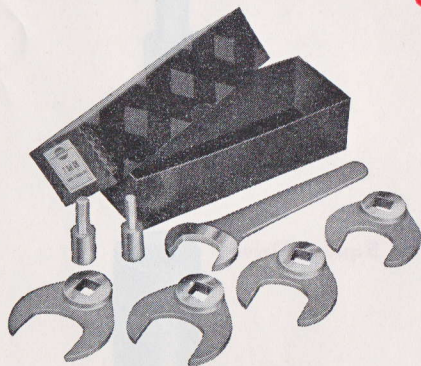
This set includes the 6 most popular sizes of small Open-End Ignition Wrenches, Small Adjustable Wrench, Point File, Neon Screw Driver, Feeler Gauge, and Slip-Joint Pliers. This set provides all the specialized tools required to service normal ignition jobs.

No.	Size Openings		Length	Thickness of Head
	15° End	60° End		
E14	15/64	15/64	3	7/64
E16	15/64	15/64	3	3/64
E18	1/32	1/4	3	3/64
E20	1/4	1/2	3	3/64
E22	3/32	3/16	3 1/4	1/8
E24	3/16	3/8	3 1/2	1/8

BW4 4" Adjustable Wrench  
5 3/8" Point File

E02 Neon Screw Driver  
K52 Feeler Gauge  
B35 Ignition Plier

Packed in Leatherette Roll.



## Camber Wrenches, 1/2" Square Drive

These thin, crowfoot wrenches have been developed to handle camber adjustments on latest model automobiles. They are made to use 1/2" square drive socket attachments and thereby provide maximum flexibility to suit the varied conditions encountered.

Tool No.	Opening	Fits
1609	1 1/4"	Pontiac 1949
1611	1 5/16"	Crosley Ford Mercury Lincoln (1949 Models)
1613	1 1/8"	Plymouth Dodge DeSoto
1614	1 1/2"	Chrysler

(Caster adjustment is most satisfactorily handled on the following 1949 models by using the thin Single Head Wrench No. 1238.)

Tool No.	Opening	Fits
1238	1 5/16"	Ford Mercury Lincoln

## Set No. 7 CB

Includes the above four crowfoot Camber attachments, Nos. 1609, 1611, 1613 and 1614. Adjusting Wrench No. 1238 and Socket Head Screw Wrenches Nos. TW8 (1/4") and TW10 (3/16").

These tools may be purchased singly or as a set.

Tool No.	Size Hex. Bit	Size Drive	Fits
TW8	1/4"	3/8"	Gen. Motors Other Than '49 Pontiac
TW10	3/16"	3/8"	

# SUPPLEMENTARY TOOL SECTION

## No. LD2 Spark Plug Set, 1/2" Square Drive

The No. LD2 set contains the six sockets which will remove and replace spark plugs in most cars and trucks.

This set contains one each of the following:

LD20	LD26T	LD30	4092
LD22	LD28T	LD32	Cross Handle

Packed in metal box, 8 1/4 x 3 3/4 x 1 1/2".



## No. TW Socket Head Screw Wrench Set

These wrenches, made with replaceable bits, cover all the popular sizes of set screws and cap screws.

The TW set contains one each of the following:

Tool No.	Size Hex. Bit	Size Drive	For Set Screw	For Cap Screw
TW4	1/8	3/8	1/4	#8
TW5	5/32	3/8	5/16	#10 & #12
TW6	3/16	3/8	3/8	1/4"
TW7	1/4	3/8	1/2	5/16"
TW8	1/2	3/8	3/4	3/8" & 7/16"
TW10	5/16	3/8	3/8	1/2"
TW12	3/8	3/8	3/4	1/2"

AW2 1/2 Fits Allen Set Screw on all above wrenches

Packed in metal box 4 1/2 x 2 x 3/4".



## No. TS-9 Single Square Socket, 3/8" Square Drive

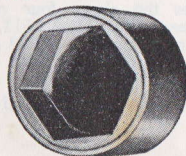
This socket is specifically designed to remove and install the oil chamber drain plugs in the Buick dynaflo transmission on all Buick cars so equipped. It can be used on any standard 3/8" drive attachment and has a 5/32" single square opening.



## Extra Heavy Duty Hexagon Sockets, 1" Square Drive

These are strong, heavy-duty sockets which meet the requirements of the toughest big nut-turning job. They fit standard 1" drive attachments.

X74..... 2 5/16"      X96..... 3"



## No. SS35 Screw Starter

This handy tool provides a positive grip for slot-head screws. It greatly simplifies the problem of starting screws in hard-to-get-at places and minimizes the chance of the screw falling into a place where it cannot be readily retrieved.

SS25.....	2½"	SS29.....	9"
SS27.....	5"	SS31.....	15"

SS35 Set includes one each of the above screw starters.

## No. AT-31 3" Wobble Drive Extension

Patent Applied For

This tool is designed for work in close quarters, providing a small amount of swivel (approximately 12°) without the use of a Universal Joint. The male end will take any standard ⅜" drive socket, while the other end of the extension is a standard female ⅜" square.

NOTE: Because of the shape of the male end of this tool, its strength is somewhat reduced, and it should, therefore, be used for light duty work only and is not guaranteed. This tool is now furnished in the following three sizes:

AT31.....	3" long	AT4.....	6" long
AT-5.....	12" long		

## No. T34 Screw Driver Attachment, ⅜" Square Drive

This handy attachment permits the use of a speeder or ratchet as a screw driver. The tool is 3½" long with a ⅜" wide blade and a ⅜" thick tip. This tool is not guaranteed.

## No. B6 Combination Plier

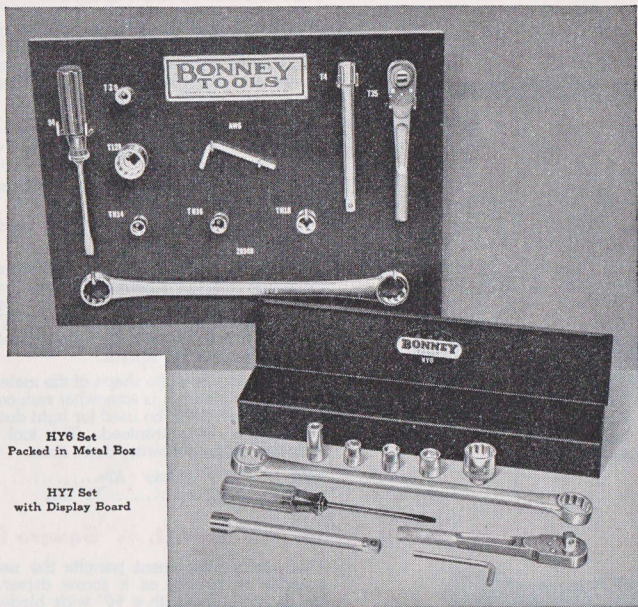
The B6 Combination Plier is a sturdily-built, forged, heat-treated, and plated slip-joint plier of the most popular type. It is made in a 6" size only. Minimum order, 12 pcs.

## No. CSI Carbon Scraper

This tool is made of tempered spring steel which provides the best combination of flexibility and wear-resistance. Its flexibility aids greatly in speeding up carbon-scraping jobs. The scraper blade is 1" wide.

# SUPPLEMENTARY TOOL SECTION

## SERVICE STATION TOOL SETS HY6 & HY7



**HY6 Set**  
Packed in Metal Box

**HY7 Set**  
with Display Board

These two sets have been especially prepared to meet the requirements of service stations which are now authorized to service oil change work on Hydra-Matic and Dynaflo Transmissions.

The HY6 Set, in metal box, is for the service station in which tools are regularly kept in a cabinet or on the work bench.

The HY7 Set, mounted on panel, is for the shop which makes a practice of displaying tools where they are readily available for service use.

Each set contains the following tools:

T128  $\frac{7}{8}$ " 12 pt. Socket  
 TH18  $\frac{9}{16}$ " 6 pt. Socket  
 TH16  $\frac{1}{2}$ " 6 pt. Socket  
 TH14  $\frac{7}{16}$ " 6 pt. Socket  
 TS9  $\frac{9}{32}$ " Single Sq. Socket  
 T4 6" Extension  
 T35  $\frac{3}{8}$ " Ratchet  
 AW6  $\frac{3}{16}$ " Allen Set Screw  
                     Wrench  
 04 4" Blade Screw Driver  
 2894B  $1\frac{5}{16}$ " x 1" Box Wr.

Hydra-Matic transmission oil pan plug.  
 Flywheel cover bolts.  
 Flywheel cover bolts.  
 Hydra-Matic fluid coupling drain plug.  
 Torque Converter drain plugs (Dynaflo)  
 Wrench Extension  
 Ratchet Handle to fit above wrenches.

For old type fluid coupling drain plugs (Hydra-Matic).  
 Screw driver to rotate flywheels.  
 Box Wrench for Dynaflo transmission oil pan plug.

## No. P011 Convertible Gear Puller

This is the small size in the new line of Bonney Convertible Pullers. The design of these sturdy pullers is such that a quick changeover will convert to a 2-arm or 3-arm puller as desired.

The upper assembly pins, with ball-detent locking, are quickly snapped from the links and are as readily replaced in the desired set-up, overcoming the necessity of using wrenches to disassemble and reassemble as in the case of bolted assemblies. This one model, P011, can be used to replace two separate pullers.

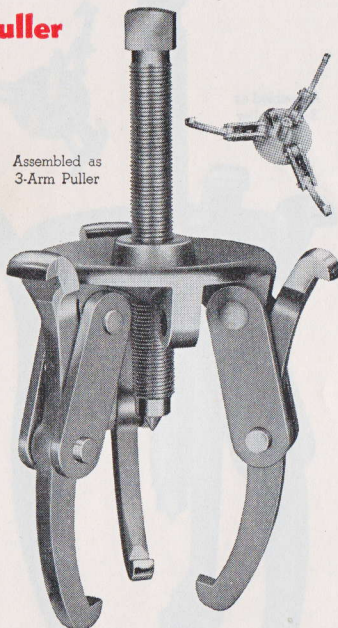
The individual parts are made of carefully selected alloys, treated as required to make this a balanced, strong and handy tool.

The reversible arms (No. P011-5) in this assembly, have a maximum reach of  $3\frac{1}{2}$  inches in depth and 0 to 6 inches in spread.

For identification, component parts have been assigned the following numbers:

P011-1...Hub	P011-3...Link	P011-5...Arm
P011-2...Screw	P011-4...Pin	( $3\frac{1}{2}$ in. reach)

Since all parts are interchangeable, this puller can be converted further into a P011L (below) by securing a set of extra arms, No. P011L-5, as illustrated.



Assembled as  
3-Arm Puller

## No. P011L Convertible Puller

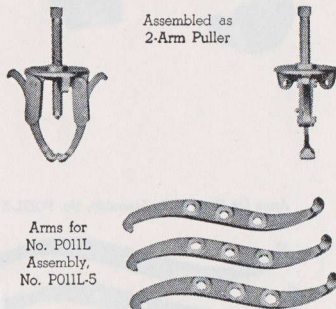
This puller is exactly the same as the above, except for the fact that it is furnished with the longer, adjustable arms No. P011L-5 in place of the shorter arms.

These longer arms have a maximum reach of  $5\frac{1}{2}$  inches in depth and 0 to 8 inches in spread.

No. P011L is provided for those cases in which the longer arms are required at the time of the original purchase of the puller. It can also be adapted later by securing the extra arms No. P011L-5, used in the P011 assembly above.

Parts are identified by the following numbers:

P011-1...Hub	P011-3...Link	P011L-5...Arm
P011-2...Screw	P011-4...Pin	( $5\frac{1}{2}$ in. reach)

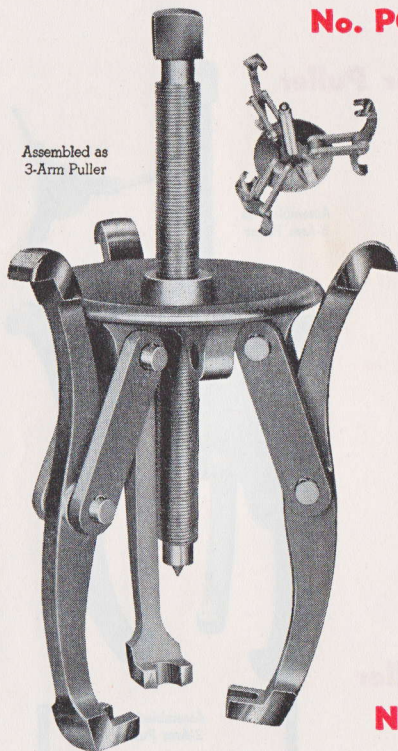


Assembled as  
2-Arm Puller

Arms for  
No. P011L  
Assembly,  
No. P011L-5

## No. PO12 Convertible Gear Puller

Assembled as  
3-Arm Puller



The PO12 is a rugged puller, designed to handle the majority of pulling operations encountered in the automotive service shop.

This puller is made in the same general design as the smaller PO11, converting to a 2-arm or 3-arm assembly to meet the requirements of the job. It features the ball-detent locking pin linkage for quick changeover.

Another feature of this puller is the slotted jaw on one end of the reversible arms, to be used for pulling gears which necessitate the use of cap screws in their removal. This feature adds greatly to the versatility of the tool. The reversible arms (No. PO12-5) in this assembly, have a maximum reach of  $5\frac{1}{2}$  inches in depth and 0 to 8 inches in spread.

Parts are identified by the following numbers:

PO12-1...Hub	PO12-3...Link	PO12-5...Arm
PO12-2...Screw	PO12-4...Pin	( $5\frac{1}{2}$ in. reach)

Parts are interchangeable with No. PO12L (below) so that this puller may be further converted by securing a set of extra arms, No. PO12L-5, as illustrated.

## No. PO12L Convertible Puller

This puller is exactly the same as the above, except for the fact that it is furnished with the longer, adjustable arms No. PO12L-5 in place of the shorter arms.

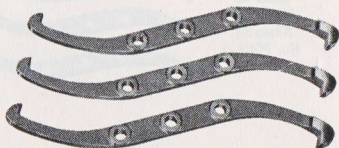
These longer arms have a maximum reach of  $8\frac{1}{2}$  inches in depth and 0 to 10 inches in spread.

No. PO12-L is provided for those cases in which the longer arms are required at the time of the original purchase of the puller. It can also be adapted later by securing the extra arms No. PO12-5, used in the PO12 assembly above.

Parts are identified by the following numbers:

PO12-1...Hub	PO12-3...Link	PO12L-5...Arm
PO12-2...Screw	PO12-4...Pin	( $8\frac{1}{2}$ in. reach)

Arms for No. PO12L Assembly, No. PO12L-5



## Adapters for Convertible Gear Pullers

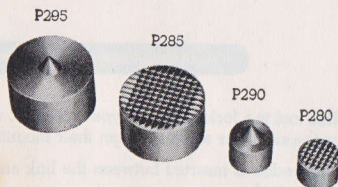
The four adapters illustrated at right are for use with Bonney Convertible type pullers and are used to protect the shaft ends. The two sizes with knurled faces are for shafts which are not countersunk to receive the centering point on the puller screw.

No. P280. .... knurled,  $\frac{1}{32}$ " diam.

No. P285. .... knurled,  $\frac{1}{16}$ " diam.

No. P290. ....  $\frac{1}{32}$ " diam.

No. P295. ....  $\frac{1}{16}$ " diam.



## No. P309 Timing Gear Puller

This is a general purpose puller for removing timing gears, fan assemblies, vibration dampeners and other parts which are tapped to receive cap screws  $\frac{3}{8}$  inch diameter or less.

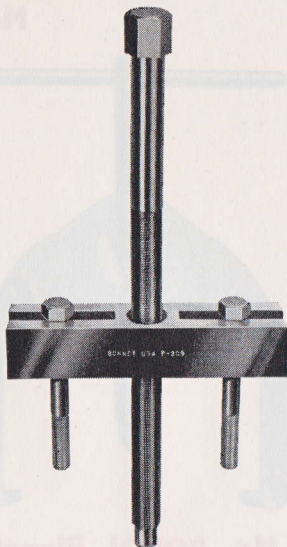
This puller is especially useful for pulling Chevrolet vibration dampeners without removing the radiator.

Parts for the No. P309 Puller are identified as follows:

P309-1 Center Block,  $5\frac{1}{2}$ " long.

P309-2 Forcing Screw,  $11\frac{1}{2}$ " long.

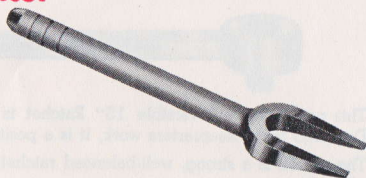
P309-3 Cap Screws (2),  $\frac{3}{8}$ "—16 thd. per inch,  $3\frac{1}{2}$ " long.



## No. P319 Pitman Arm Separator

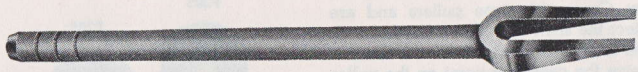
This tool is a forked wedge type separator, used to dismount the pitman arm assembly. The wedge is inserted between the pitman arm and the shaft. The arm is loosened by striking the end of the tool.

Separator No. P319 has a jaw opening  $1\frac{1}{8}$  inches wide. The length of the tool is  $11\frac{1}{4}$  inches.



## SUPPLEMENTARY TOOL SECTION

### No. P317 Shock Link & Stabilizer Link Separator

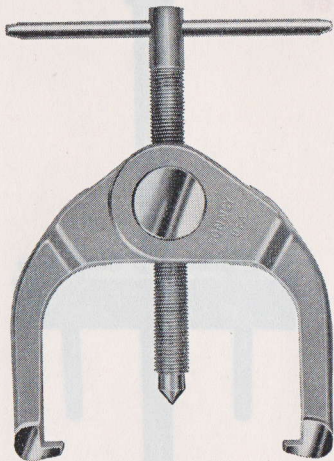


This tool is a forked wedge type separator, used to free the tapered links of the shock absorber assembly or the stabilizer assembly from their mountings.

The wedge is inserted between the link and the arm of the assembly and loosened by striking the end of the tool.

Separator No. P317 has a jaw opening  $\frac{5}{8}$  inches wide. The length of the tool is 16 inches.

### No. P305 Two-Arm Gear Puller



This two-arm puller has a wide range of applications in the service shop.

It is especially useful to the refrigeration service man for pulling operations encountered in refrigeration maintenance.

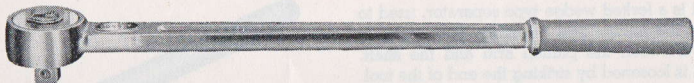
This tool will also service a great number of applications found in the automotive and aircraft service industries.

The unique feature of this puller is the simplicity of construction. Parts are identified as follows:

P305-1. .Outer Arm	P305-3. .Forcing Screw
P305-2. .Inner Arm	P305-5. .Pivot Pin
Maximum reach is $2\frac{3}{8}$ inches in depth.	
Maximum spread is $3\frac{1}{2}$ inches.	

### No. 4080L Planetary Ratchet $\frac{1}{2}$ " Square Drive

Patent Pending



This new Bonney Reversible 15" Ratchet is a companion tool to the Bonney 4080 10" Ratchet. Designed for close-quarters work, it is a positive engagement ratchet with minimum drag.

The 4080L is a strong, well-balanced ratchet and is handsomely finished. It has an overall length of 15 inches.

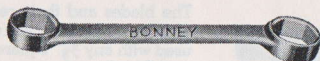
## No. 2844 Box Wrench for Olds Manifold



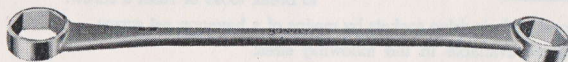
This wrench is made with a  $\frac{9}{16}$  inch double hexagon opening at each end. It is designed with a step-down offset of one inch on one end and a flat angle offset of  $42^\circ$  on the opposite end.

The overall length of the wrench is  $9\frac{1}{2}$  inches. This tool is designed primarily for use on Oldsmobile manifolds.

## Single Hexagon Box Wrenches - $15^\circ$ Offset



Short Type



Long Type

Since a great number of mechanics prefer a wrench with single hexagon openings, Bonney now makes the most popular sizes available in the numbers listed below. Box walls are thin and handles are thin and oval shaped, providing a firm, comfortable grip. Especially useful on worn, rounded nuts.

## No. 28H Set - Three Pieces

Contains three short type wrenches in the following sizes:

No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut	Nut Size	
H2885	$\frac{5}{16}$ & $\frac{3}{8}$	4	$\frac{1}{4}$	.....	.....	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
H2887	$\frac{1}{2}$ & $\frac{1}{2}$	5	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
H2889	$\frac{1}{2}$ & $\frac{5}{8}$	6	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{8}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$

Packed in Leatherette Roll or Cardboard Box.

## No. 36H Set - Six Pieces

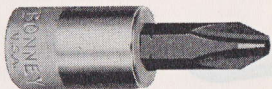
Contains two short and four long type wrenches in the following sizes:

No.	Openings	Length	Regular Series		Heavy Series	Light Series	Cap Screw
			Bolt Size	Nut Size	Bolt & Nut	Nut Size	
H2886	$\frac{3}{8}$ & $\frac{7}{16}$	$4\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	.....	$\frac{1}{4}$	$\frac{1}{4}$
H2888	$\frac{1}{2}$ & $\frac{3}{16}$	$5\frac{1}{2}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
H2890	$\frac{3}{8}$ & $\frac{1}{2}$	$7\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	.....	$\frac{1}{4}$	$\frac{1}{4}$
H2891	$\frac{1}{2}$ & $\frac{5}{16}$	$8\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
H2892	$\frac{3}{8}$ & $\frac{1}{2}$	$9\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
H2893	$\frac{1}{2}$ & $\frac{13}{16}$	11	$\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{2}$	.....	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{13}{16}$

Packed in Leatherette Roll or Cardboard Box.

## SUPPLEMENTARY TOOL SECTION

### Wrenches for Phillips Head Screws - $\frac{3}{8}$ " Drive



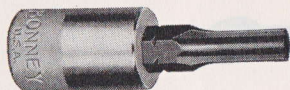
be used with any  $\frac{3}{8}$ " square socket drive and the blades are retained in their drive sockets by means of a hexagon set screw.

These are available in the following numbers:

TP1 — Fits Phillips Screws No. 4 and smaller  
TP2 — " " " " Nos. 5 to 9 inc.

TP3 — Fits Phillips Screws Nos. 10 to 16 inc.  
TP4 — " " " " No. 18 and larger

### Wrenches for Clutch Head Screws - $\frac{3}{8}$ " Drive



The blades and their retaining drive sockets are made of alloy steel and carefully heat treated. They can be used with any  $\frac{3}{8}$ " square socket drive and are especially useful in close clearance work or where force is required to break loose or reset a screw.

Blades are retained in their drive sockets by means of a hexagon set screw.

These wrenches are available in the following sizes:

TCL3 — Fits Clutch Head Screw Sizes #4, #8, #10  
TCL5 — " " " " " #12, #14,  $\frac{1}{4}$ "  
TCL7 — " " " " "  $\frac{5}{16}$ ",  $\frac{3}{8}$ "

### No. TD8 Set, Phillips and Clutch Head Wrenches



This handy set of  $\frac{3}{8}$  inch drive wrenches is made up of the four sizes of wrenches to fit Phillips Screws and the three sizes to fit Clutch Head Screws as illustrated and described above.

These may be used with any standard  $\frac{3}{8}$ " square socket drive attachment. A number AW2 $\frac{1}{2}$  hex key is provided for use in changing blades.

The set is packed in a metal box  $4\frac{1}{2} \times 2 \times \frac{3}{4}$ ".

### Bonney Metal Snips



Furnished in three styles as follows:

No. B50—For right hand cutting  
No. B51—For left hand cutting  
No. B52—Universal, for right or left cuts.  
Packaged individually in cardboard box.

These snips, with compound leverage design provide strong, yet free and easy cutting power on all types of tough sheet metal including stainless steel and duralumin.

The drop-forged chrome-vanadium steel jaws are serrated to provide a sure grip on the work. They are spring-actuated. The jaws are  $2\frac{1}{2}$  inches long, handles  $6\frac{3}{4}$  inches. The overall length is  $9\frac{3}{4}$  inches.

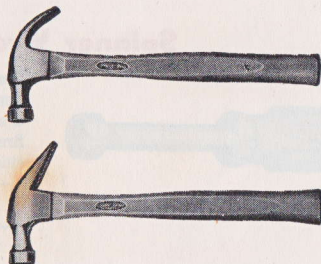
## Nos. PH35 and PH36 Claw Hammers

Because of the demand for a general utility claw hammer, Bonney has added these two most popular claw hammers to the line.

There are so many uses, such as opening cases, etc., that a great many mechanics find a claw hammer a useful tool in their kit.

No. PH35 is made with curved claw, polished head. No. PH36 is made with straight claw, polished head.

Each hammer weighs 16 ounces.

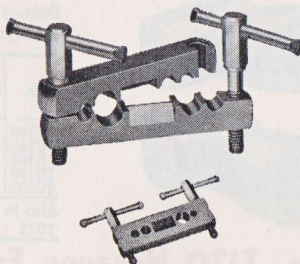


## No. RF47 - Pinch-Off Tool

Patent Pending

The primary use of this tool is in refrigeration service work and is used to pinch off refrigeration tubing as well as restoring the tubing to correct shape and diameter after the service work has been completed.

The outstanding feature of this handy tool is the quick-operating freeing and locking action. This tool is made for use with  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$  and  $\frac{1}{2}$  inch tubing.



## No. BW Adjustable End Wrench Repair Kit

This kit is provided for making repairs to adjustable end wrenches BW4, 6, 8, 10, and 12.

The repair parts for each wrench are furnished in the following quantities:

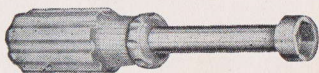
	BW4	BW6	BW8	BW10	BW12
Movable Jaws	2	3	3	2	1
Knurls	2	3	4	2	2
Retaining Pins	2	3	4	2	2
Springs	2	3	4	2	2

Furnished in a sectional, size-marked cardboard box.



# SUPPLEMENTARY TOOL SECTION

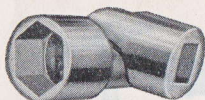
## Spinner Wrenches - Composition Handle



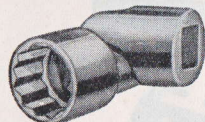
Designed especially for reaching small nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a hexagon socket that grips the nut firmly. Shanks and sockets have plated finish. The composition handles are fluted for a firm grip.

No.	Hexagon Opening	Overall Length	Drill Depth
CH06	$\frac{3}{16}$ "	6"	$2\frac{1}{4}$ "
CH08	$\frac{1}{4}$ "	6"	$2\frac{1}{2}$ "
CH10	$\frac{5}{16}$ "	6"	$2\frac{1}{2}$ "
CH11	$\frac{11}{32}$ "	6"	$2\frac{1}{4}$ "
CH12	$\frac{3}{8}$ "	$6\frac{5}{8}$ "	5"
CH14	$\frac{7}{16}$ "	$6\frac{5}{8}$ "	5"
CH16	$\frac{1}{2}$ "	$6\frac{5}{8}$ "	5"

## Flexible Hexagon Sockets - $\frac{3}{8}$ " Drive



Bonney now makes available to mechanics who prefer Single Hexagon Sockets, the following  $\frac{3}{8}$ " drive flexible sockets:



No.	Opening	Regular Series		Heavy Series Bolt Size	Light Series Nut Size	Cap Screw
		Bolt Size	Nut Size			
TU120	$\frac{3}{8}$ "	$\frac{1}{4}$ "	.....	.....	.....	$\frac{3}{8}$ "
TU140	$\frac{1}{2}$ "	.....	$\frac{1}{4}$ "	.....	$\frac{1}{4}$ "	$\frac{1}{4}$ "
TU160	$\frac{1}{2}$ "	.....	.....	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{5}{16}$ "
TU180	$\frac{5}{8}$ "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	.....	$\frac{3}{8}$ "	$\frac{3}{8}$ "
TU200	$\frac{5}{8}$ "	$\frac{7}{16}$ "	$\frac{3}{8}$ "	.....	$\frac{7}{16}$ "	$\frac{7}{16}$ "

Also in a new Double Hex Size:

TU12	$\frac{3}{8}$ "	$\frac{1}{4}$ "	.....	$\frac{3}{8}$ "
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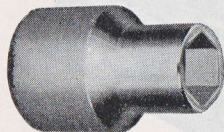
## No. T120 Hexagon Extra Deep Socket - $\frac{3}{8}$ " Drive



A new single hexagon, extra deep socket is added to the Bonney line of  $\frac{3}{8}$  inch drive sockets. The dimensions of this socket are as follows:

No.	Opening	Length	For Bolt Size
T120	$\frac{3}{8}$ "	2"	$\frac{1}{4}$ "

## No. 2571 Cadillac Connecting Rod Socket - $\frac{1}{2}$ " Drive



This is a straight walled  $\frac{1}{16}$  inch single hexagon socket with  $\frac{1}{2}$  inch drive, designed to fit the close clearance on Cadillac connecting rods in models prior to 1949. Because of the thin wall, necessary to meet the requirements of this application, this tool is not guaranteed. The length of the socket is  $1\frac{3}{8}$  inches.

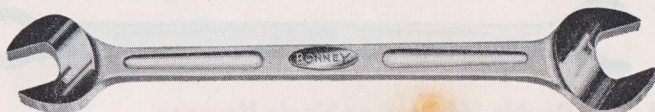
## Bonney Streamlined Wrenches

Bonney leads again with a new design in wrenches—streamlined, slim, trim, light in weight and well balanced. Easier to handle, easier on the hands. Handles are rounded and smooth. No sharp edges or rough spots to make hands sore.

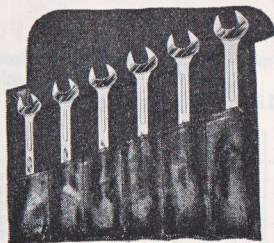
Wrench openings are accurate, assuring a firm hold on the nut. Narrow heads, without sacrifice of strength, permit getting into tight places.

By its looks, by its heft, by its feel, the new Bonney Wrench says to the **real** mechanic: "Here's a wrench you can depend on."

Available in sizes shown in table below:



No.	Opening	Length	Head Thickness	Regular Series		Heavy Series	Light Series	Cap Screws
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
E810	1/4 & 5/16	4 1/4	5/32					
E1012	5/16 & 3/8	4 3/4	7/16	1/4				
E1214	3/8 & 7/16	5 1/4	7/32	1/4	1/4		1/4	1/4
E1416	7/16 & 1/2	5 3/4	15/64	5/16	1/4	1/4	1/4 & 5/16	1/4 & 5/16
E1618	1/2 & 9/16	6 1/4	1/4	5/16 & 3/8	5/16	1/4	5/16 & 3/8	5/16 & 3/8
E1820	9/16 & 5/8	7	17/64	3/8 & 7/16	5/16 & 3/8	3/8	3/8 & 7/16	3/8 & 7/16
E2022	5/8 & 11/16	7 3/4	9/32	1/2	3/8	3/8	1/2	1/2
E1925	19/32 & 25/32	8 3/16	21/64			5/16 & 7/16		
E2224	11/16 & 3/4	8 1/2	5/16	1/2	7/16		1/2	1/2
E2426	3/4 & 13/16	9 1/4	11/32	1/2	7/16 & 1/2		1/2	1/2 & 9/16
E2628	13/16 & 7/8	10	23/64					
E2830	7/8 & 15/16	10 3/4	3/8	9/16 & 5/8	9/16	1/2 & 9/16	9/16 & 5/8	5/8
E3032	15/16 & 1	11 1/2	13/32	5/8	5/8	9/16	5/8	3/4



### No. N46 Set • 6 Pieces

The N46 Set covers the most useful openings from 5/16" to 1". Set No. N46R is supplied in leatherette roll, LR56. Set N46 in cardboard. Includes one each of the following:

No.	Size Openings
E1012	5/16 & 3/8
E1416	7/16 & 1/2
E1820	9/16 & 5/8
E2224	11/16 & 3/4
E2628	13/16 & 7/8
E3032	15/16 & 1

### No. N45 Set • 6 Pieces

This new set of wrenches provides all the popular size openings from 1/4" to 1 5/16". N45R is furnished in leatherette roll, LR56. N45 in cardboard box. Set contains one each of the following:

No.	Size Openings
E810	1/4 & 5/16
E1214	3/8 & 7/16
E1618	1/2 & 9/16
E2022	5/8 & 11/16
E2426	3/4 & 13/16
E2830	7/8 & 15/16

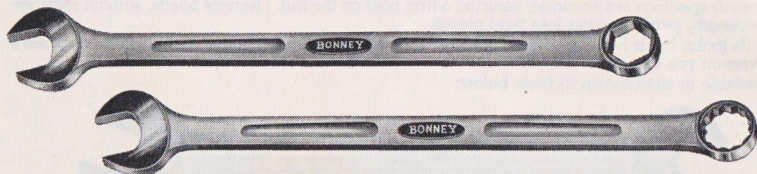
### No. N47 Set • 6 Pieces

Set No. N47 includes all standard openings from 3/8" to 1 5/16". No. N47R is available in leatherette roll, LR56. Set N47 is packed in cardboard box. One each of the following are included:

No.	Size Openings
E1214	3/8 & 7/16
E1618	1/2 & 9/16
E2022	5/8 & 11/16
E1925	19/32 & 25/32
E2426	3/4 & 13/16
E2830	7/8 & 15/16

# SUPPLEMENTARY TOOL SECTION

## Bon alloy Streamlined Combination Wrenches



### Long Series, Double Hexagon or Single Hexagon

This is the new Bonney design in combination wrenches—streamlined, light in weight and well balanced. Easier to handle, easier on the hands. Handles are rounded and smooth. Box end set at 15° angle for clearance, open end angled at 15°.

Wrench openings are accurate, assuring a firm hold on the nut. Narrow heads, without sacrifice of strength, permit getting into tight places. In single or double hexagon type these new Bonney wrenches say to the real mechanic: "Here's a wrench you can depend on." Available in sizes listed below:

Double Hexagon No.	Hexagon No.	Opening	Length	Regular Series		Heavy Series	Light Series	Cap Screws
				Bolt Size	Nut Size	Bolt & Nut Size	Nut Size	
1112	1112H	3/8	6 1/2	1/4	No. 10			
1114	1114H	7/16	7 3/8		1/4, also No. 12 & 14		1/4	1/4
1116	1116H	1/2	8 1/4	5/16		1/4	5/16	5/16
1118	1118H	9/16	9 1/4	3/8	5/16		3/8	3/8
1120	1120H	5/8	9 3/4	7/16	3/8		7/16	7/16
1122	1122H	11/16	10 3/4			3/8		
1124	1124H	3/4	11 1/4	1/2	7/16		1/2	1/2

### No. N61 Set • 5 Pieces

Five popular sizes in the new type single hexagon. No. N61R available in leatherette roll, LR72. No. N61 in cardboard box.

No.	Opening	Type
1114H	7/16	Comb. Wrench, Single Hex., Long Series
1116H	1/2	Comb. Wrench, Single Hex., Long Series
1118H	9/16	Comb. Wrench, Single Hex., Long Series
1120H	5/8	Comb. Wrench, Single Hex., Long Series
1122H	11/16	Comb. Wrench, Single Hex., Long Series

### No. N65 Set • 7 Pieces

Seven popular sizes in the new type single hexagon. No. N65R available in leatherette roll, LR80. N65 in cardboard box.

No.	Opening	Type
1112H	3/8	Comb. Wrench, Single Hex., Long Series
1114H	7/16	Comb. Wrench, Single Hex., Long Series
1116H	1/2	Comb. Wrench, Single Hex., Long Series
1118H	9/16	Comb. Wrench, Single Hex., Long Series
1120H	5/8	Comb. Wrench, Single Hex., Long Series
1122H	11/16	Comb. Wrench, Single Hex., Long Series
1124H	3/4	Comb. Wrench, Single Hex., Long Series

### No. N60 Set • 5 Pieces

Five most useful double hexagon sizes, new type. No. N60R is furnished in leatherette roll, LR72. N60 in cardboard box.

No.	Opening	Type
1114	7/16	Comb. Wrench, Dbl. Hex., Long Series
1116	1/2	Comb. Wrench, Dbl. Hex., Long Series
1118	9/16	Comb. Wrench, Dbl. Hex., Long Series
1120	5/8	Comb. Wrench, Dbl. Hex., Long Series
1122	11/16	Comb. Wrench, Dbl. Hex., Long Series

### No. N64 Set • 7 Pieces

Seven most useful double hexagon sizes, new type. No. N64R furnished in leatherette roll, LR80. N64 in cardboard box.

No.	Opening	Type
1112	3/8	Comb. Wrench, Dbl. Hex., Long Series
1114	7/16	Comb. Wrench, Dbl. Hex., Long Series
1116	1/2	Comb. Wrench, Dbl. Hex., Long Series
1118	9/16	Comb. Wrench, Dbl. Hex., Long Series
1120	5/8	Comb. Wrench, Dbl. Hex., Long Series
1122	11/16	Comb. Wrench, Dbl. Hex., Long Series
1124	3/4	Comb. Wrench, Dbl. Hex., Long Series

# "Bill" Toboldt Discusses Automotive Tools

There is a world of difference between a set of quality wrenches and hand tools and a set of knuckle-busters picked up at the local cut-price emporium.

Good tools cost money and a mechanic's earnings are dependent on having and using the right tool for each job. No efficient mechanic would be without a reversible ratchet in his kit. However, many are losing time through not having complete sets of tools throughout the full range of sizes, or have neglected to secure special tools designed to speed work in hard-to-get-at places.



A complete set of quality tools will boost a mechanic's earnings and with proper care will last a lifetime. The right tool makes it unnecessary to use make-shifts; slipping a piece of pipe over a flex handle for added leverage shortens tool life; grinding the walls of a socket so that it will go on a connecting rod bolt, results in early failure; using a screw driver as a chisel or pry bar quickly ruins it for normal work. The foregoing are such examples of a few of the many ways of abusing tools and shortening their life.

A mechanic with a complete kit does not have to resort to such practices and as a result his tools are always in good condition and will last indefinitely.

Careful study of a tool catalog and noting the special tools that are available is also important. Get these special tools. In addition to saving time on the job they will eliminate the time spent in grinding, bending, cutting and altering standard tools to adapt them to some special purpose.

Another important factor in keeping a set of tools is to have the proper cabinet or tool box. These must be of sufficient size so that each tool will have its individual position and can be easily found. In this way time is saved and there is the additional advantage that a "borrowed" tool is quickly noticed.

Keep tools clean and in their proper place. This will help turn out jobs in less time. Equally important, it will build customer confidence and increase shop business.

How to recognize good tools from poor ones is often difficult. When in doubt a mechanic or shop operator can always depend on nationally advertised brands. The manufacturers of such tools are proud of their reputation and their product, and will stand back of their guarantee.

William K. Toboldt, Editor  
Motor Service Magazine  
Chicago, Ill.

## "Ted" Quinn, on Refrigeration Tools

There's an old saying in the refrigeration service business; "A mechanic is no better than the tools he uses".

Sure, some refrigeration service men can get along; in a hit-or-miss sort of way, with cheap tools, that aren't specifically designed for the sort of jobs that refrigeration men have to do. In a pinch, a guy that's clever with his hands can get along with almost anything. But it doesn't pay out over the long pull.

Keeping refrigeration and air conditioning equipment in tip-top working order is a job that's vital to the nation's well-being—and it's a job that just can't be done right without "quality" tools.

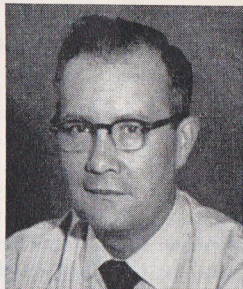
Refrigeration service men work with precision equipment—and a half-turn too much can throw the whole machine out of kilter. Working, as they are often called upon to do, in hard-to-get-at-places, they realize full well the essentiality of tools "made for the job".

This "made-for-the-job" feature of really good tools is especially important in times like the present. Defense plants, hospitals, institutions, food warehouses, restaurants, food stores—to name only a few of the thousands of places where refrigeration and air conditioning equipment enters importantly into our national welfare—have to be handled efficiently and quickly. And the mechanic who tries to handle work like this with make-shift tools has two strikes on him before he starts out.

As archaeologists count time, the refrigeration and air conditioning field is still in its swaddling clothes—it still has a long, long way to go. But there are veterans in the business; men who have been working with this kind of equipment for 30 years and more, and they're proud of their craft. These men came into the business when, most of the time, they had to use make-shift tools—or even make special devices of their own—for the work they had to do.

When you talk to them about it, they'll tell you about the "old days". But you won't find any "old-time" tools in their kits. They've thrown those in-betweeners out a long time ago, in favor of quality tools that help them to handle their service work better, faster, and easier. Nobody values more highly the importance of having "made-for-the-job" tools to work with.

It all boils down to this; make-shift, cheap tools will get you by, if you're the type of service man who's satisfied when he does a make-shift repair job—and where you're not counting on your customers for regular, repeat business. But no first-rate refrigeration mechanic we know of would think of stocking his tool kit with any but the best tools to be had. After all, good service tools mean good service work—and good service work means a good reputation, and more service jobs.



Theodore T. Quinn  
Managing Editor  
Commercial Refrigeration  
Cleveland, Ohio

# Chart of Wrench and Socket Openings and Sizes of Bolts and Nuts they fit

Wrench Opening	American Standard Reg. Bolts	American Standard Reg. Nuts, Size Bolts	Amer. Std. Heavy Nuts (U.S.S.), Size Bolts	Amer. Std. Light Nuts (S.A.E.), Jam Nuts, Castle Nuts and Slotted Nuts, Size Bolts	Cap Screws	Set Screws	Machine Screw Nuts and Stove Bolt Nuts	Wrench Opening
5/32							No. 0 & No. 1	5/32
3/16							No. 2 & No. 3	3/16
1/4						1/4	No. 4	1/4
5/16						5/16	No. 5 & No. 6	5/16
11/32							No. 8	11/32
3/8	1/4					3/8	No. 10	3/8
7/16		1/4		1/4	1/4	7/16	No. 12 & No. 14	7/16
1/2	5/16		1/4	5/16	5/16	1/2		1/2
9/16	3/8	5/16		3/8	3/8	9/16	5/16	9/16
19/32			5/16					19/32
5/8	7/16	3/8		7/16	7/16	5/8	3/8	5/8
11/8			3/8					11/8
3/4	1/2	7/16		1/2	1/2	3/4		3/4
29/32			7/16					29/32
13/16		1/2			9/16			13/16
7/8	9/16	9/16	1/2	9/16	7/8	7/8		7/8
15/16	3/4		9/16	3/4				15/16
1		3/4			3/4	1		1
1 1/16			3/4	3/4				1 1/16
1 1/8	3/4	3/4			7/8	1 1/8		1 1/8
1 1/4			3/4	3/4		1 1/4		1 1/4
1 5/16	7/8	7/8			1			1 5/16
1 3/8						1 3/8		1 3/8
1 7/16			7/8	1				1 7/16
1 1/2	1	1			1 1/8	1 1/2		1 1/2
1 5/8			1	1 1/8				1 5/8
1 11/16	1 1/8	1 1/8			1 1/4			1 11/16
1 13/16			1 1/8	1 1/4				1 13/16
1 7/8	1 1/4	1 1/4						1 7/8
2			1 1/4	1 3/8				2
2 1/16	1 3/8	1 3/8						2 1/16
2 3/16			1 3/8	1 1/2				2 3/16
2 1/4	1 1/2	1 1/2						2 1/4
2 3/8			1 1/2					2 3/8
2 7/16	1 3/4	1 3/4						2 7/16
2 9/16			1 3/4					2 9/16
2 5/8	1 3/4	1 3/4						2 5/8
2 3/4			1 3/4					2 3/4
2 13/16	1 7/8	1 7/8						2 13/16
2 15/16			1 7/8					2 15/16
3	2	2						3
3 1/8			2					3 1/8
3 3/8	2 1/4	2 1/4						
3 1/2			2 1/4					
3 5/8	2 1/2	2 1/2						
3 3/4			2 1/2					
4 1/8	2 3/4	2 3/4						
4 1/4			2 3/4					
4 1/2	3	3						
4 3/4			3					
5			3 1/4					
5 3/8			3 1/2					
5 1/2			3 3/4					
6 1/8			4					

*If it's Bonney-*  
**IT'S THE BEST!**

**BONNEY**  
ALLENTOWN, PA., U.S.A.